

WIRING DIAGRAM PACKAGE FOR MODEL 33 PRIVATE LINE SETS (SEE NOTE BELOW)

WDP 0033

DRAWING NO.	SHEET NO.	DESCRIPTION	ISSUE NUMBER																													
			46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
SCHEMATIC DIAGRAMS																																
6353WD	ALL	MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	20	20	20	20																										
ACTUAL WIRING DIAGRAMS																																
6354WD	ALL	MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	30	30	30	30																										
CIRCUIT CARD ASSEMBLIES																																
181821	-	500 MA SELECTOR MAGNET DRIVER	12	13	13	14																										
182630-635	-	500 MA SELECTOR MAGNET DRIVER	20	21	21	21																										
183079	-	AUTO READER POWER PACK	13	13	14	14																										
183087	-	MANUAL READER POWER PACK	13	13	14	14																										
NOTE: THIS WDP COVERS THE FOLLOWING MODEL 33 SETS:																																
33TA, TA/1, TB, TB/1, TC, TC/1, TS, TU, TZ, TAB, TAC, TAF, TAH, TAJ, TAY, TAZ, TBH, TBP, TBV, TBW, TBZ, TCA, TCD, TCY, TCX, TDG, TDJ, TDK, TDM, TDY, TEC, TER, TES,																																
TELETYPE CORPORATION	NOTE : THE LAST COMPLETED COLUMN INDICATES THE LATEST ISSUE NUMBER OF WDP.																										SHEET 1 OF 1					

TC 482 (U-66) SEE R&D ROUTINE #5
FOR USE OF THIS FORM

NO	NOTES												
1.	FOR ACTUAL WIRING DIAGRAM SEE 63541												
2.	THE SET IS SHOWN WIRED FOR SIMPLEX .060 AMP. NEUTRAL SIGNAL LINE ON TERMINALS 6 AND 7 OF THE 151411 TERMINAL STRIP. FOR .020 AMP. NEUTRAL SIGNAL LINE MOVE THE P WIRE FROM TERMINAL 6 TO TERMINAL 9 OF THE 151411 TERMINAL STRIP. ALSO MOVE THE BL WIRE FROM TERMINAL 3 OF THE POWER RESISTOR 10 TO TERMINAL 4. (SEE NOTE 25)												
3.	FOR FULL DUPLEX OPERATION CONNECT SEND SIGNAL LINE TO TERMINAL 4 AND 5 OF THE 151411 TERMINAL STRIP. MOVE W-BL WIRE FROM TERMINAL 4 TO 5 AND BR-Y WIRE FROM TERMINAL 3 TO 5 ON 151411 TERMINAL STRIP. (SEE NOTE 25)												
4.	ON KSR SETS ALL ASSOCIATED READER WIRING IS NOT USED.												
5.	ALL CAPACITANCE VALUES IN MICROFARAD UNLESS OTHERWISE SPECIFIED.												
6.	ALL RESISTORS 1/2 WATT AND RESISTANCE VALUES IN OHMS UNLESS OTHERWISE SPECIFIED.												
7.	ON RO SETS USE 18183E PLUG ASSEMBLY												
8.	THESE CONNECTIONS ARE MADE AS OPTIMUM BY THE CUSTOMER AND OR THE FACTORY												
9.	.060 AMP. SIGNAL LINE OPTION ① .020 AMP. SIGNAL LINE OPTION ②												
10.	THIS IS AN 8 LEVEL UNIT.												
11.	THESE WIRES ARE IN THE DISTRIBUTOR CABLE AS SPARES. IF NOTE 19 APPLIES AND TIE BACK THESE WIRES.												
12.	THIS FUSE NOT INCLUDED ON SOME SETS. FUSE VALUES ARE AS FOLLOWS:												
	<table border="1"> <thead> <tr> <th>TRANSFORMER</th> <th>FUSE</th> <th>PART</th> </tr> </thead> <tbody> <tr> <td>181879</td> <td>1/2 AMP SL-BL</td> <td>112</td> </tr> <tr> <td>182657</td> <td>8/10 AMP SL-BL</td> <td>162</td> </tr> <tr> <td>186651</td> <td>1/2 AMP SL-BL</td> <td>117</td> </tr> </tbody> </table>	TRANSFORMER	FUSE	PART	181879	1/2 AMP SL-BL	112	182657	8/10 AMP SL-BL	162	186651	1/2 AMP SL-BL	117
TRANSFORMER	FUSE	PART											
181879	1/2 AMP SL-BL	112											
182657	8/10 AMP SL-BL	162											
186651	1/2 AMP SL-BL	117											
13.	WIRING SHOWN AS XA IS FOR EVEN PARITY KEYBOARDS.												
14.	FURNISH 115V AC ± 10%, 60 Hz EXCEPT 50 Hz ON 33TAB, TAH KSR SETS, 33 TAC, TBP, TDK, TDM, TES, ASR SETS AND 33 RO SETS.												
15.	APPROPRIATE FUSE IN 182182 FUSEHOLDER NOT INCLUDED IN EARLY SETS.												
	<table border="1"> <thead> <tr> <th>MOTGR</th> <th>FUSE VALUE</th> <th>FUSE PART</th> </tr> </thead> <tbody> <tr> <td>182241</td> <td>2.0 AMPS.</td> <td>1385</td> </tr> <tr> <td>182267</td> <td>1.8 AMPS.</td> <td>3222</td> </tr> </tbody> </table>	MOTGR	FUSE VALUE	FUSE PART	182241	2.0 AMPS.	1385	182267	1.8 AMPS.	3222			
MOTGR	FUSE VALUE	FUSE PART											
182241	2.0 AMPS.	1385											
182267	1.8 AMPS.	3222											
16.	NETWORK 153631												
17.	60 CYCLE READER TRIP COIL RESISTANCE IS 630Ω. 50/60 CYCLE READER TRIP COIL RESISTANCE CHANGED FROM 630Ω TO 780Ω FOR IMPROVED 50 CYCLE OPERATION.												
18.	LOW PAPER ALARM CONTACTS NOT FOUND IN ALL UNITS. CONTACT RATING 4A AT 30V DC												
19.	TO CUSTOMER SUPPLIED ALARM.												
20.	AA,AB,AJ,AK, REFER TO MANUAL READER, BA,BB,BJ,BK, REFER TO AUTOMATIC READER												
21.	MAY NOT BE FOUND ON EARLY UNITS												
22.	33 TDY TO BE WIRED FOR .020 AMP SIGNAL LINE OPERATION.												
23.	FOR CUSTOMER USE REQUIRES 48 VAC POWER SUPPLY.												
24.	THE 186556 ELAPSED TIMER ASSEMBLY IS USED ON UP848 AND UP856												
	NOTES CONTINUED ON ISSUE CONCERN SHEET.												

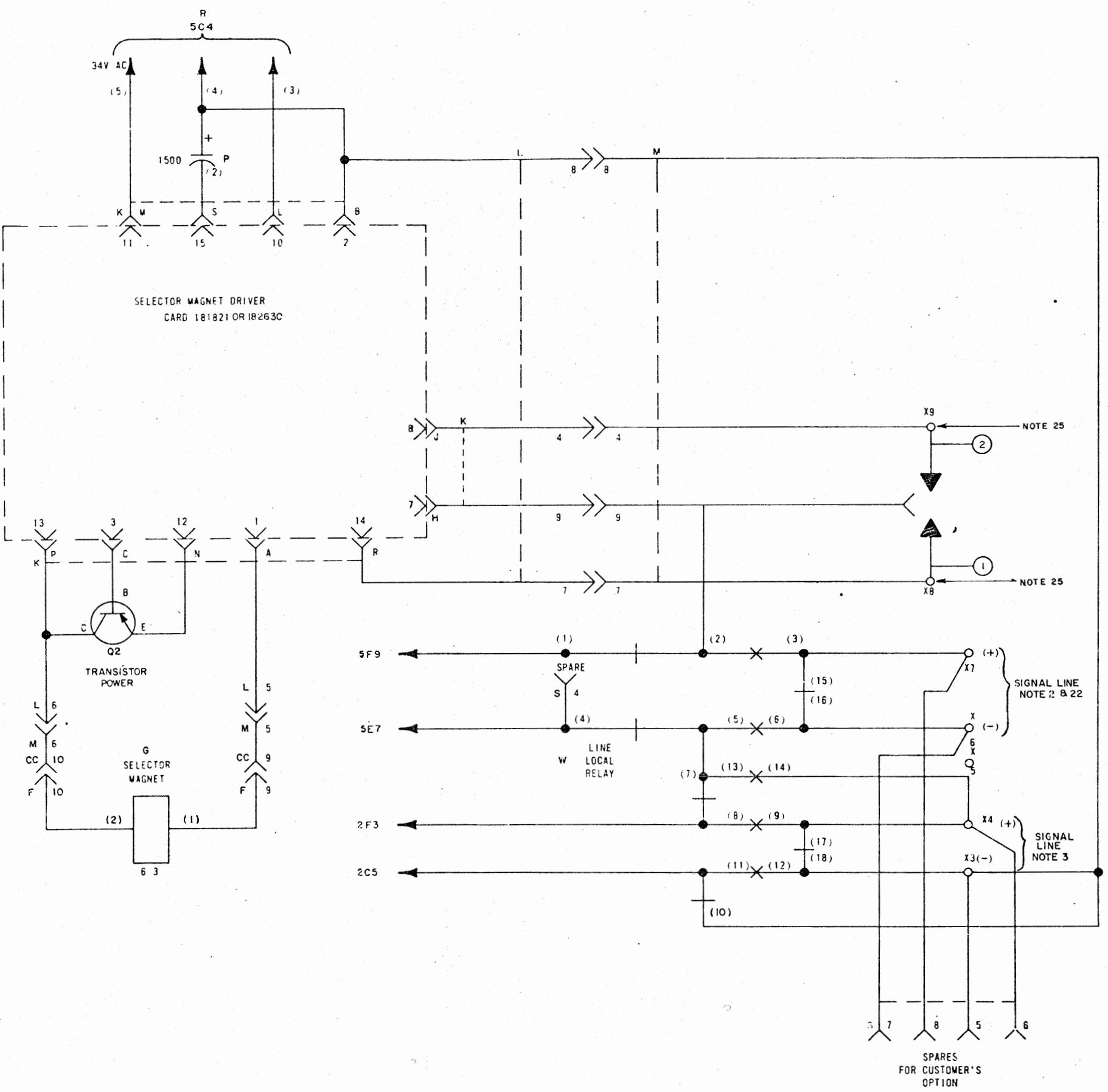
NOTE. REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS PART OF THIS W.D.

6353 WD

REVIEWS

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3	1-8-64	79934
4	4-9-64	81640
5	6-9-64	81773
6	11-27-64	84602
7	2-15-65	84599-1
8	3-15-65	85643
9	8-6-65	88293
10	1C-15-65	85983
11	12-17-65	89007
12	1-13-66	88841-3
13	2-1-66	90357
14	3-9-66	89721-2
15	3-29-66	90790
16	5-2-66	90374
17	5-10-66	90380
18	10-12-66	90771
19	10-19-66	92181
20	12-28-66	92962
21	5-26-67	94003
22	8-23-67	94003-10
23	8-24-67	94380-D
24	1-16-68	94596
25	1-24-69	96776
26	4-16-69	99079
27	5-20-69	99243
28	9-9-69	99474
29	7-29-70	99957
30	1-22-71	419
31	5-14-71	2787
32	5-22-72	6325-RC

SEE ISSUE CONTROL RECORD FOR
COMPLETE LIST OF SHEETS
COMPRISED THIS W.D.



SHEET 1

SCHEMATIC

WIRING DIAGRAM

FOR

MODEL 33

SIGNAL LINE

— 10 —

APPROVALS

THE BOSTONIAN SOCIETY

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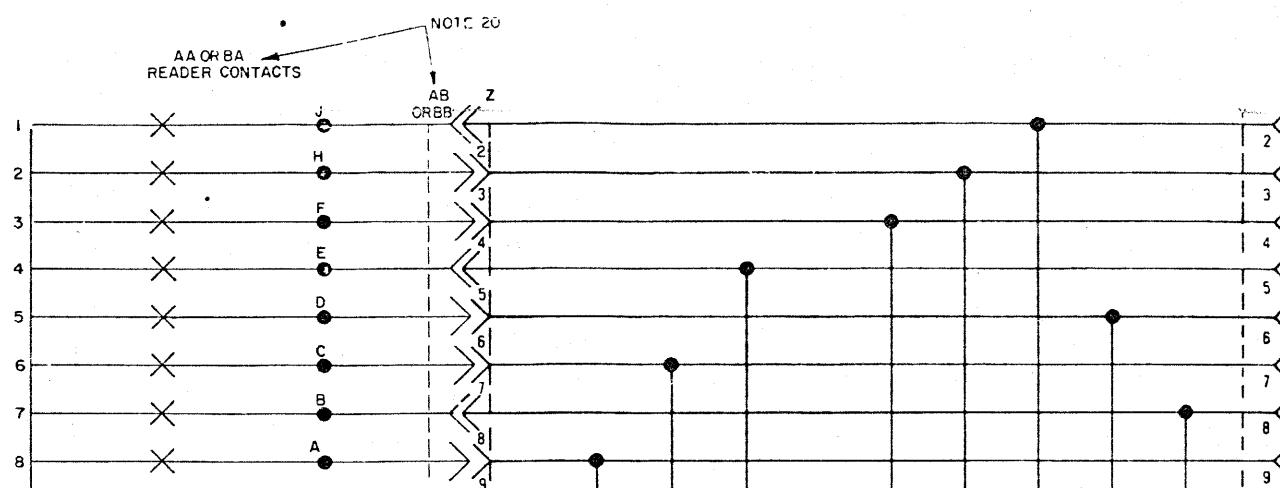
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CORPORATION

353 W

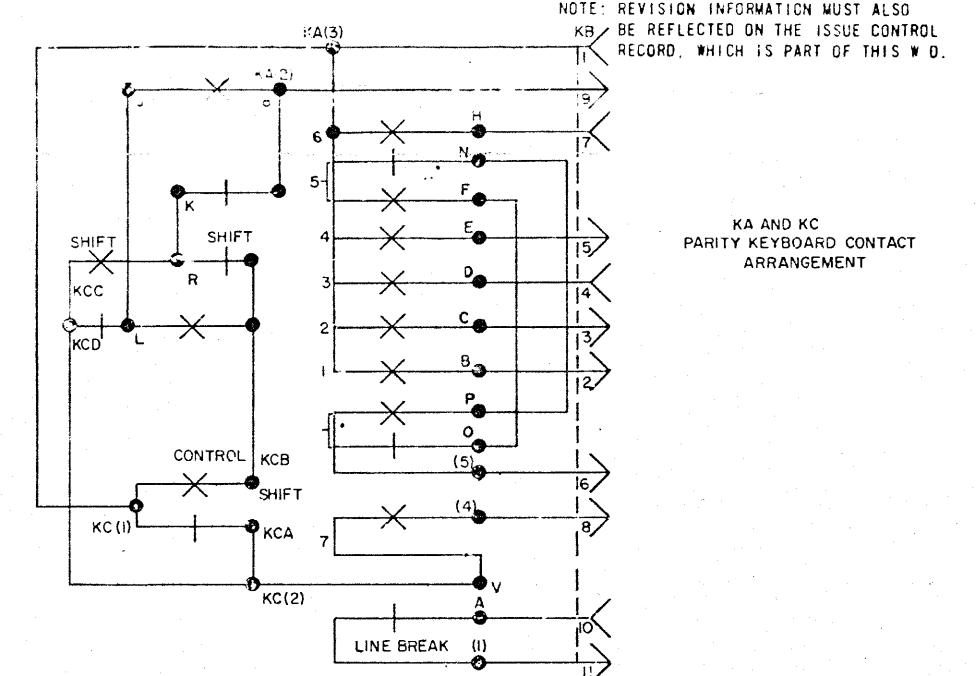
1333 WL

SEE SHEET 1 FOR NOTES

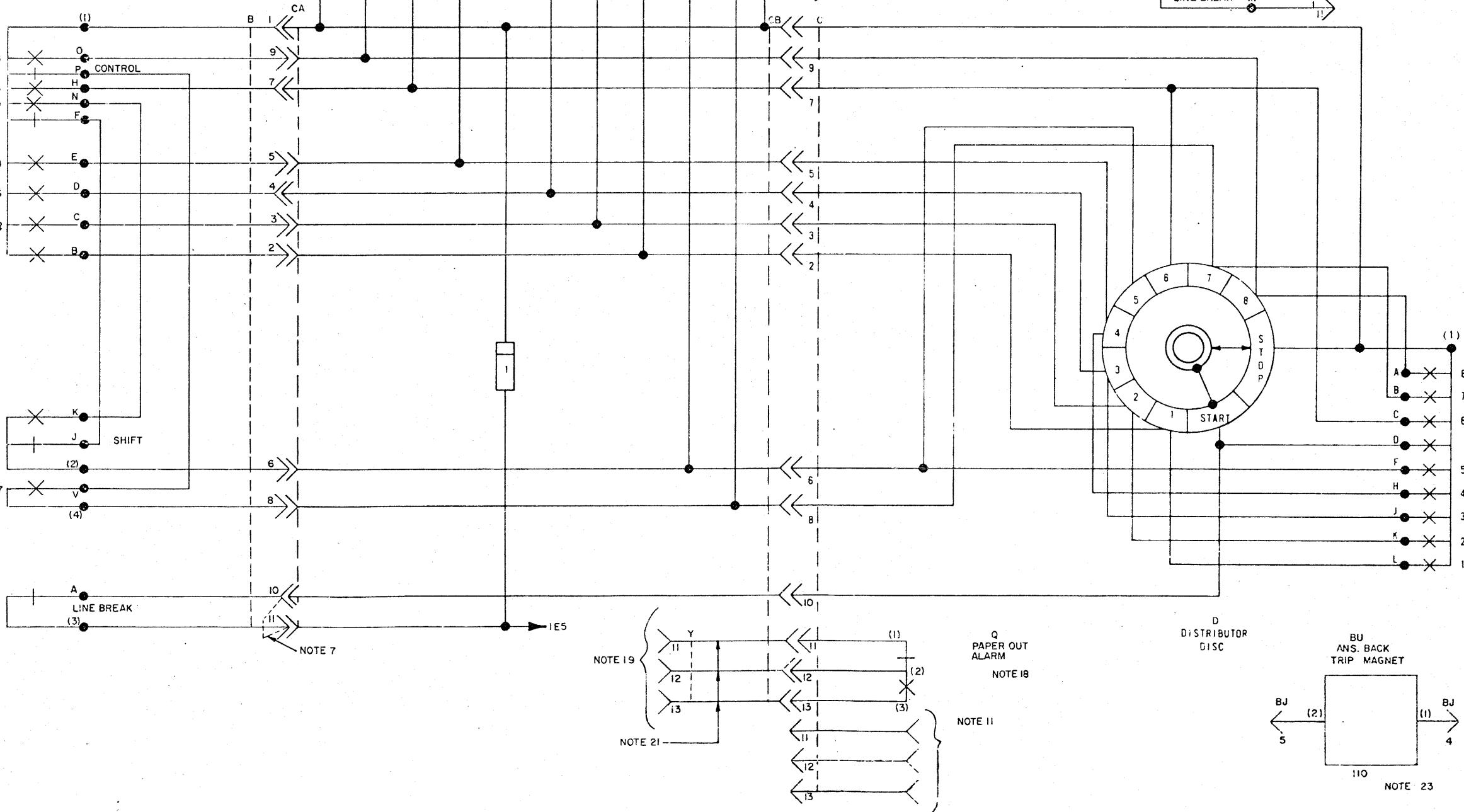


A
KEYBOARD CONTACT ARRANGEMENT

SPARES
FOR CUSTOMER'S
OPTION



KA AND KC
PARITY KEYBOARD CONTACT
ARRANGEMENT



6353WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	11-20-63	79266
3	1-8-64	79934
4	4-9-64	81640
5	6-9-64	81773
6	11-27-64	84602
7	2-15-65	84599-1
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11	12-17-65	89007
12	1-3-66	89841-3
13	2-17-66	90357
14	3-9-66	90721-2
15	3-29-66	90790
16	5-2-66	90371
17	5-10-66	90386
18	10-12-66	90271
19	10-19-66	92131
20	12-28-66	92382
21	5-29-67	93073
22	8-22-67	94003-10
23	1-24-69	96776

SEE ISSUE CONTROL RECORD FOR
COMPLETE LIST OF SHEETS
COMPRISING THIS W.D.

SHEET 2

SCHEMATIC
WIRING DIAGRAM
FOR
MODEL 33
ASP, KSR, RO
DC SIGNAL LINE

E
ANSWER
BACK
CONTACTS

APPROVALS

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E-NUMBER

PROD. NO. 6353 WD

DATE 4-12-67

P.D. FILE. NO. 2-30 152, 153AA

DRAWN JR CHKD.

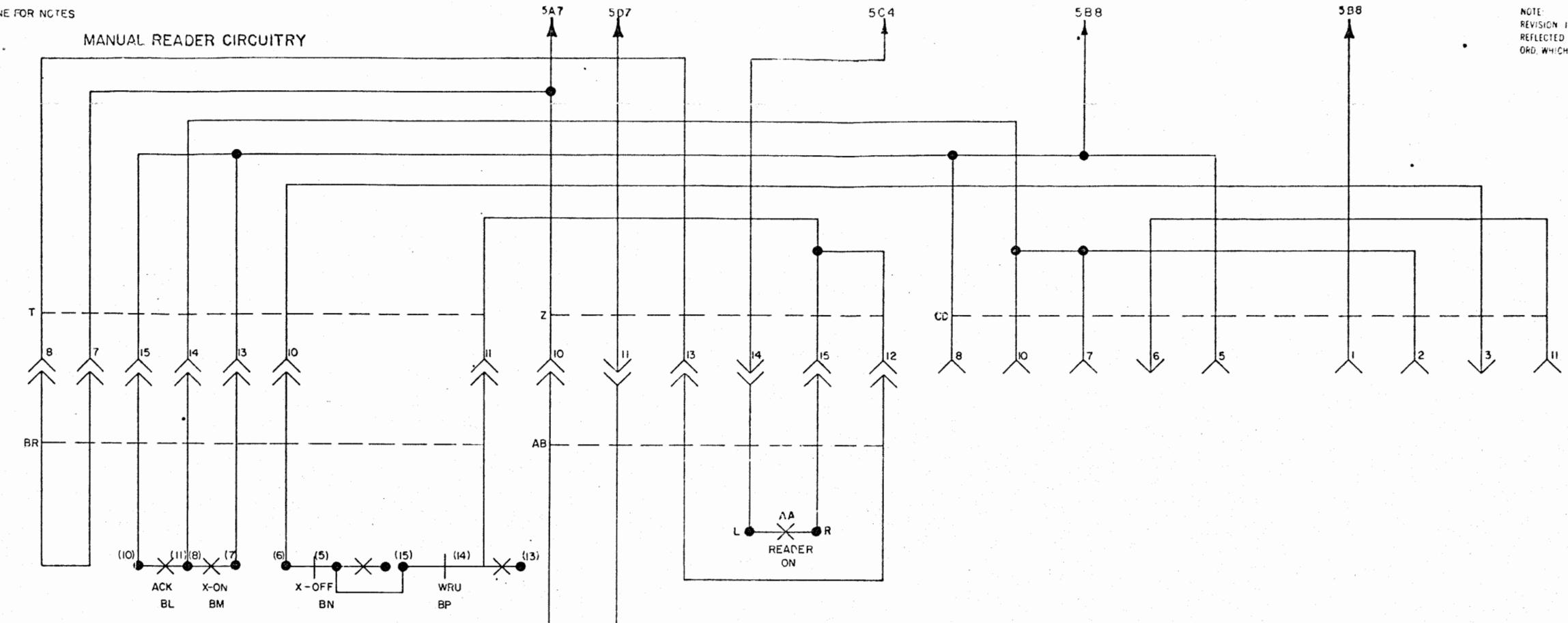
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TELETYPE
CORPORATION

6353WD

SEE SHEET ONE FOR NOTES

MANUAL READER CIRCUITY



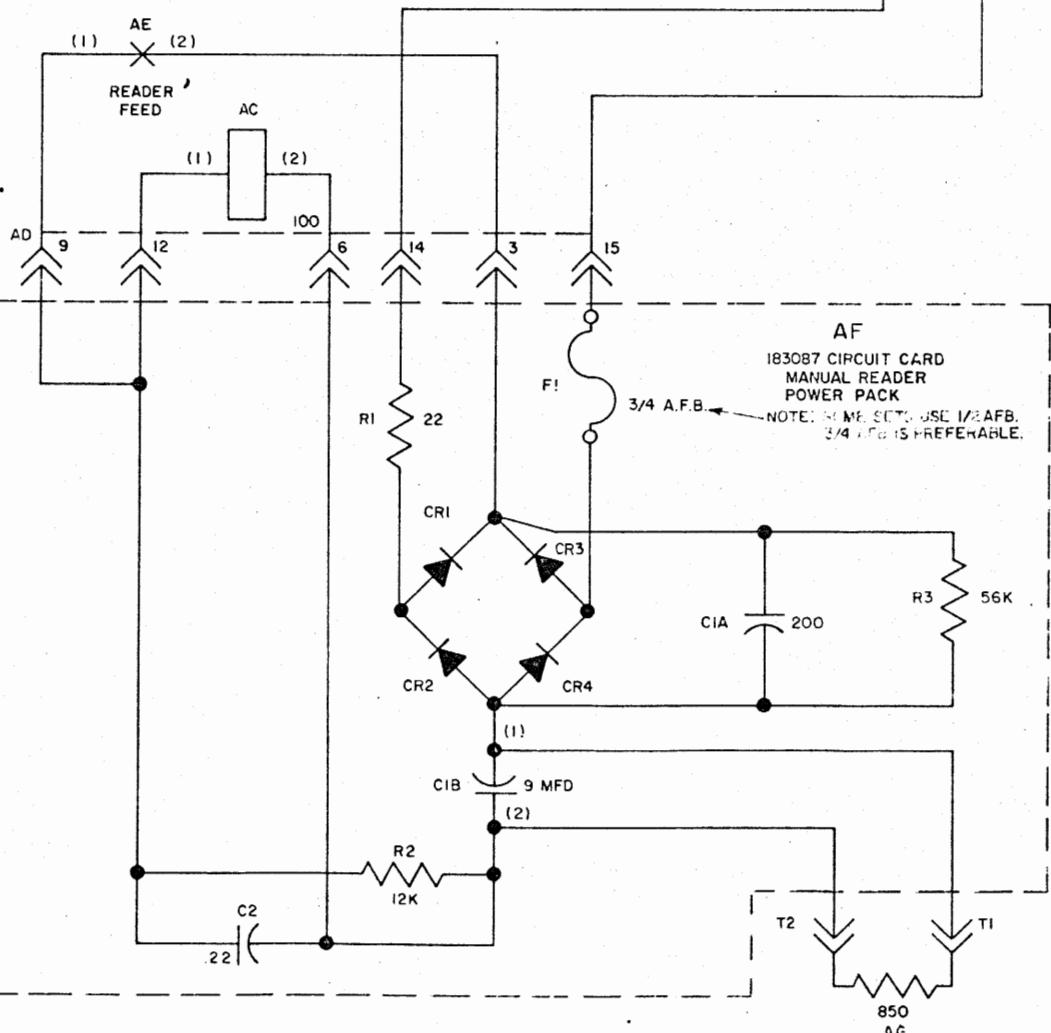
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6353WD

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9	8-6-65	88293
10	10-15-65	88983
11	12-17-65	39001
12	1-13-66	85841-3
13	2-17-66	90351
14	3-9-66	8971-2
15	3-29-66	90790
16	5-2-66	90374
17	5-10-66	80380
18	6-12-66	90771
19	10-9-66	92181
20	12-27-66	92362
21	8-22-68	95993
22	9-17-69	99187
23	2-10-70	99187-2
24	5-31-70	170

SEE ISSUE CONTROL RECORD FOR COM-
PLETE LIST OF SHEETS COMPRISING THIS
WD

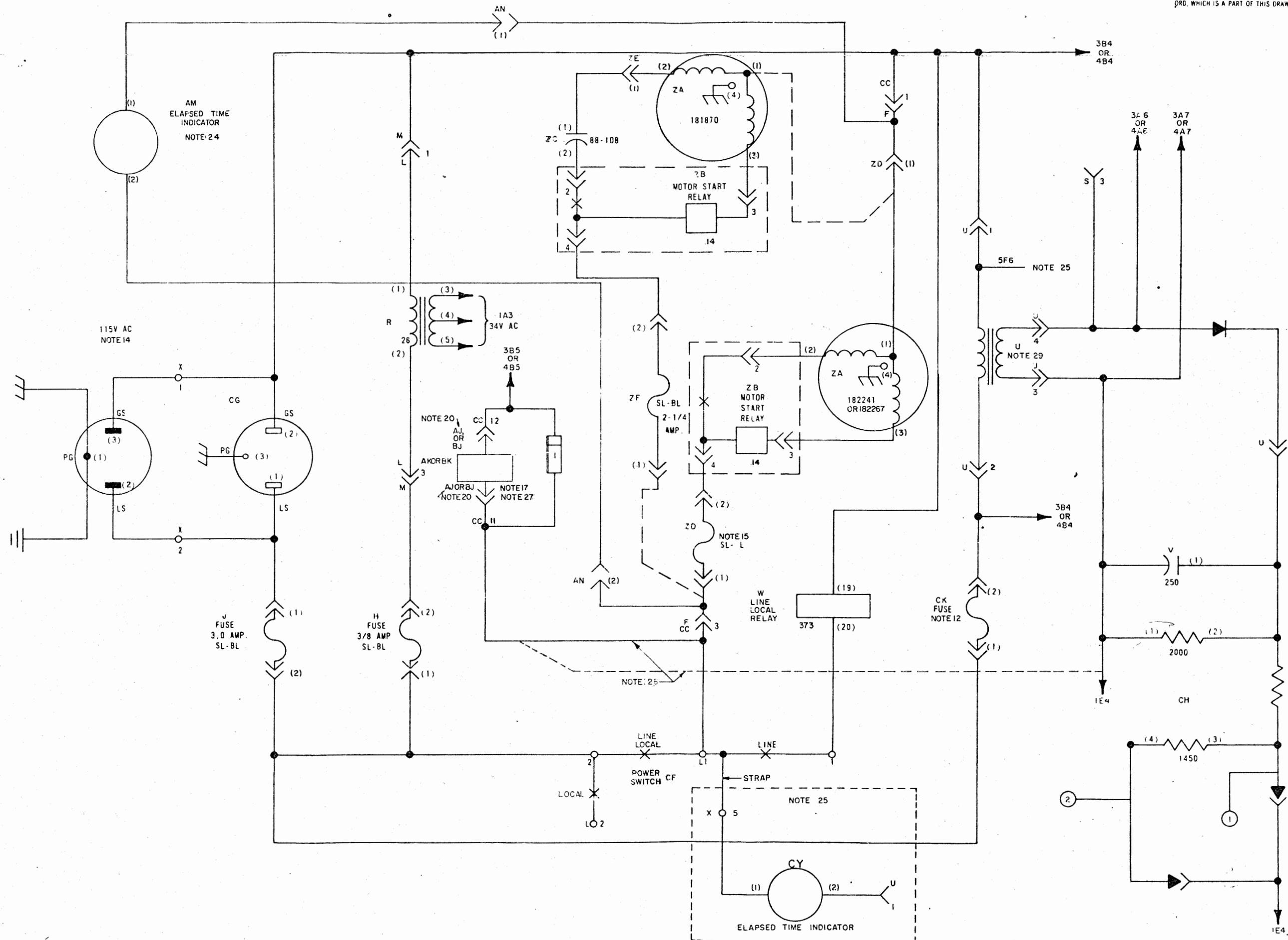


SEE SHEET 1 FOR NOTE

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ISSUE CONTROL RECORD

6354 WD

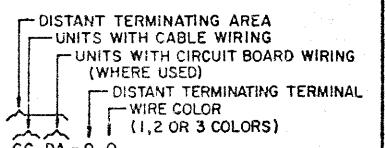
SUPPORTING INFORMATION

CONTENTS

SHEET
NO

NO. NOTES

30.	THE 186543 CABLE ASSEMBLY IS USED ON UP848.
31.	THE WRU CONTACT IS NOT WIRED ON UP848
32.	THE 186554 CABLE ASSEMBLY IS USED ON UP848 AND UP856.
33.	THE 186556 ELAPSED TIMER ASSEMBLY AND THE 181891 SLEEVES ARE USED ON UP848 AND UP856.
34.	<p>a. THE 182044 ELAPSED TIMER KIT IS USED ON MODELS 337DH, TDP, AND IS FACTORY WIRED AS SHOWN FOR 020A OR 060A HALF DUPLEX OPERATION.</p> <p>b. FULL DUPLEX 060A. IF THIS OPTION IS DESIRED FOR USE WITH THE 182044 ELAPSED TIMER KIT (REFER NOTE 5). DISCONNECT TAPE AND TIE BACK THE YELLOW WIRE THAT IS PRESENTLY CONNECTED AT TERMINAL 9 AND RELOCATE THE TIMER LEAD CY-1-BL AND THE 176162 STRAP FROM TERMINAL 5 OF THE "X" TERMINAL STRIP TO TERMINAL 8.</p> <p>c. FULL DUPLEX .020A. IF THIS OPTION IS DESIRED FOR USE WITH THE 182044 ELAPSED TIMER KIT (REFER NOTES 4 & 5). DISCONNECT TAPE AND TIE BACK THE BLACK-GREEN WIRE THAT IS PRESENTLY CONNECTED AT TERMINAL 8 AND RELOCATE THE TIMER LEAD CY-1-BL AND THE 176162 STRAP FROM TERMINAL 5 OF THE "X" TERMINAL STRIP TO TERMINAL 8.</p>
35.	279 M -48VAC -110Ω 300M -115VAC - 780Ω
36.	WHEN A SET CONTAINS A UP848 IT WILL BE NECESSARY TO REMOVE THE 182692 STRAP BETWEEN TERMINALS 7&8 AND REPLACE IT WITH THE 182693 STRAP BETWEEN TERMINALS 4&8.
37.	OLDER SETS NOT EQUIPPED WITH PEDESTAL GROUND STRAP.
38.	OLDER STYLE CONVENIENCE OUTLET MECHANICALLY GROUNDED.
39.	WIRING APPLIES TO UNITS WITH 186651 TRANS. ASSEM. (TRANS. PART NO. 186648)
40.	MANUFACTURING CHANGES MADE IN CABLE OF "PARITY" KEYBOARDS. EARLIER UNITS HAD 2 WIRES IN CERTAIN CONTACT BLOCK AND CONNECTOR PINS (KA-L,R,V,J,K8-1). KEYBOARD FUNCTION UNCHANGED. BOXES REPRESENT SPLICES INTERNAL TO CABLE. SPLICES NOT SHOWN ON ASSOCIATED SCHEMATIC DRAWINGS.
41.	WIRING LEGEND:
	<p>DISTANT TERMINATING AREA UNITS WITH CABLE WIRING</p> <p>UNITS WITH CIRCUIT BOARD WIRING (WHERE USED)</p> <p>DISTANT TERMINATING TERMINAL WIRE COLOR (1, 2 OR 3 COLORS)</p> <p>CC, DA - 9-0</p>



NUMBER 6354WD

AWN CHKD

GD. PR. 5 APPD. N.A.V.

TELETYPE

CORPORATION

6354 WD

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6354 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
1	11-20-63	79266
2	1-8-64	79934
3	2-11-64	80310
4	3-15-64	81133
5	6-9-64	81772
6	11-27-64	82462
7	2-15-65	82599
8	3-15-65	83643
9	4-10-65	83573
10	8-6-65	83293
11	10-15-65	82983
12	12-17-65	80007
13	1-13-66	83841
14	3-9-66	83721
15	3-29-66	80780
16	5-10-66	90380
17	10-11-66	90771
18	10-19-66	92181
19	12-1-66	91561
20	5-26-67	94003
21	8-7-67	94091
22	8-23-67	94034
23	4-11-68	95702
24	5-20-68	95781
25	1-27-69	96776
26	4-16-69	99079
27	9-9-69	99474
28	10-1-69	99557
29	5-14-71	2787
30	5-22-72	6325-RC
31	11-21-73	8046

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.

SHEET 1 **WDP**

ACTUAL WIRING DIAGRAM FOR MODEL 33 ASR, KSR, RO FOR DC SIGNAL LINE

APPROVALS

D AND R H.J.K.	E OF M
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E-NUMBER

PROD. NO. 6354 WD

DATE 9-25-63

P.D. FILE NO. 2-30-152 153AA

DRAWN C.G. **CHKD.**

ENGD. P.R.S. **APPD.**

TELETYPE CORPORATION

6354 WD

NOTES

1. WIRING LEGEND:
- DISTANT TERMINATING AREA
- DISTANT TERMINATING DESIGNATION
A-11-BK [20-B] NOTE 19
WIRE COLOR CODE
ALSO REFER TO NOTE 41

2. WIRE COLOR CODE:
BK - BLACK BL - BLUE
BR - BROWN S - SLATE
Y - YELLOW G - GREEN
O - ORANGE P - PURPLE
R - RED W - WHITE

3. FOR SCHEMATIC WIRING DIAGRAM SEE 6353WD.

4. THE SET IS SHOWN WIRED FOR SIMPLEX .060 AMP. NEUTRAL SIGNAL LINE ON TERMINALS 6 AND 7 OF THE 151411 TERMINAL STRIP. FOR .020 AMP. NEUTRAL SIGNAL LINE MOVE THE P WIRE FROM TERMINAL 8 TO TERMINAL 9 OF THE 151411 TERMINAL STRIP. ALSO MOVE THE BL WIRE FROM TERMINAL 3 TO 4 ON THE POWER RESISTOR. (SEE NOTE 34)

5. FOR FULL DUPLEX OPERATION CONNECT THE SEND SIGNAL LINE TO TERMINALS 4 & 3 OF THE 151411 TERMINAL STRIP. MOVE THE N-BL WIRE FROM TERMINAL 4 TO 5 AND THE BR-Y WIRE FROM TERMINAL 3 TO 5 ON THE 151411 TERMINAL STRIP. (SEE NOTE 34)

6. TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESIS ARE NOT MARKED ON THE COMPONENT.

7. ASSOCIATED CABLE ASSEMBLY 181820.

8. ON R.O. SETS SUBSTITUTE 181838 CABLE ASSEMBLY ON CONNECTOR "7".

9. 181827 CABLE ASSEMBLY USED ON 181820 CABLE ASSEMBLY.

10. USE 181826 STRAPS ON ASSEMBLY.

11. IF EITHER X-OFF OR WRU FUNCTION CONTACT IS NOT USED THE CONTACT SHOULD BE JUMPED OUT (UX801).

12. 181839 PLUG ASSEMBLY USED ON ASR SETS. (UX 800)

13. THESE WIRES ARE IN THE DISTRIBUTOR CABLE AS SPARES.

14. WIRING DESIGNATED "(NOTE 14)" APPLIES TO UNITS WITHOUT CK FUSE HOLDER.

15. WIRING DESIGNATED "(NOTE 15)" APPLIES TO UNITS WITH CK FUSE HOLDER.

16. FUSE VALUES ARE AS FOLLOWS:
TRANSFORMER FUSE PART NO.
181879 1/2 AMP. 117176
182657 8/10 AMP. 162360
SL-BL SL-BL

17. WIRING SHOWN FOR KA, KB, & KC IS FOR EVEN PARITY KEYBOARDS.

18. FURNISH 115V AC ± 10%, 60 Hz, EXCEPT 50 Hz ON 33TAB KSR, AND 33 TAC, TDK, TDM, TES, ASR SETS.

19. WIRING STATUS:
RECTANGULAR BOX INDICATES HISTORY OF WIRING CHANGES.
00-B NOTE B- DENOTES WIRING BEFORE AND
00-A NOTE A- WIRING AFTER THE CHANGE
00-A NO. DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT

20. 185731 STRAP AND FUSE ASSEMBLY NOT INCLUDED IN EARLY SETS.
MOTOR FUSE VALUE FUSE PART NO.
182241 2.0 AMP. 138538
182267 1.8 AMP. 320346

21. * DENOTES 20 GA. WIRE
** DENOTES 18 GA. WIRE

NOTES CONTINUED ON ISSUE CONTROL SHEET

A KEY BOARD CONTACT BLOCK

B CONNECTOR PLUG KEYBOARD 182540

C CONNECTOR PLUG DISTRIBUTOR 182540

D DISTRIBUTOR DISC

E ANSWER BACK BLOCK

F CONNECTOR PLUG (PRINTER) 182540

G SELECTOR COIL 180715

H FUSE HOLDER 182661

I 186163 CABLE ASSEMBLY

J FUSE HOLDER 182661

K SMD CARD CONNECTOR RECEPTACLE 181819

L CONNECTOR PLUG SMD 182716

M CONNECTOR RECEPTACLE (UCC6)(UCC 36) 182645

Q PAPER ALARM SWITCH NOTE 24

NOTE 26

NOTE 27

NOTE 28

NOTE 29

NOTE 32

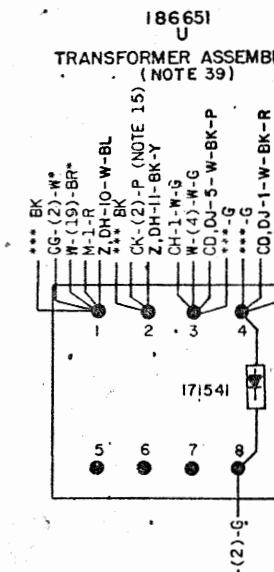
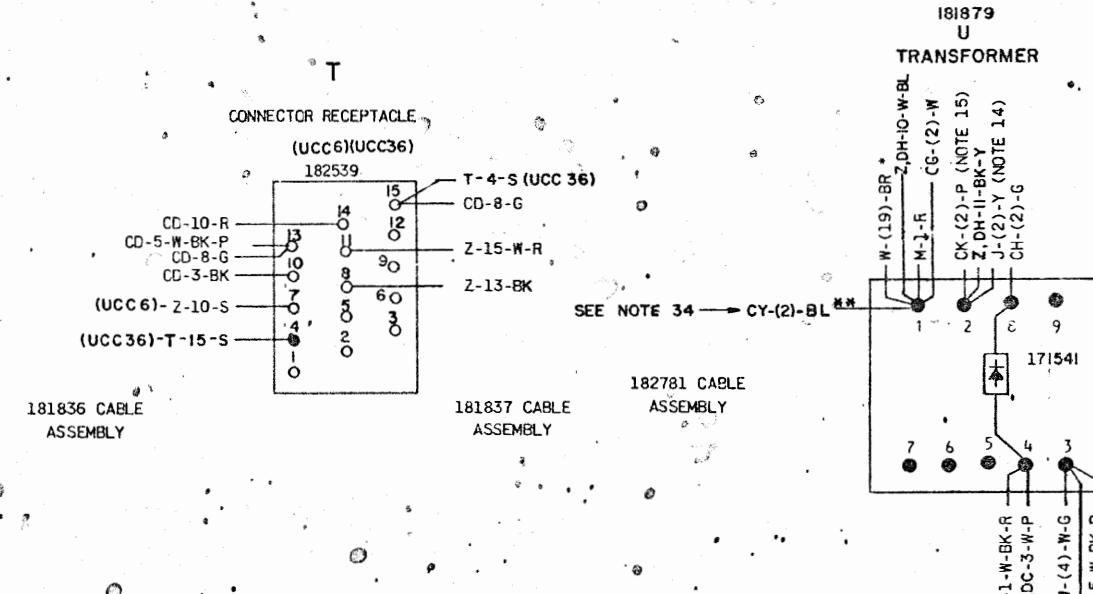
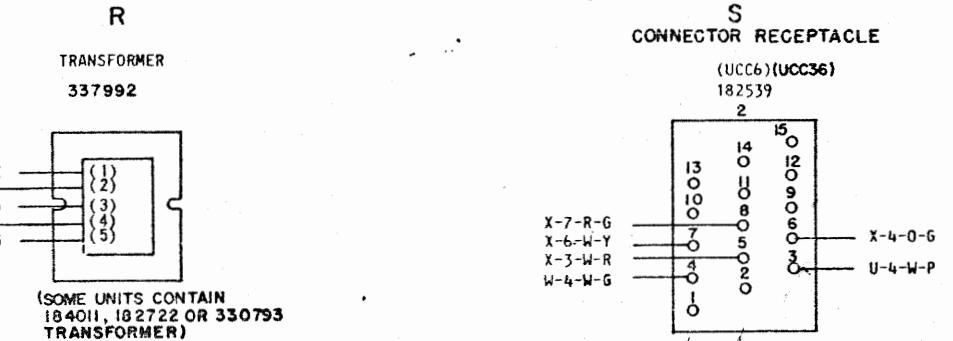
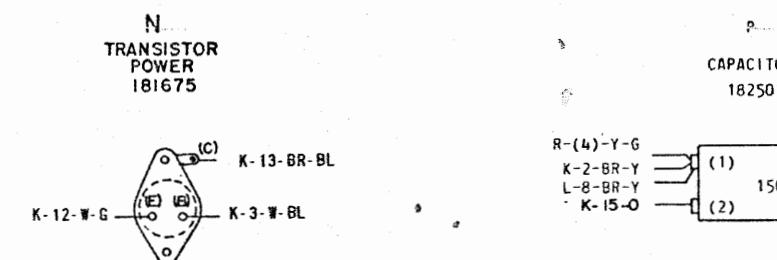
SEE SHEET 1 FOR NOTES

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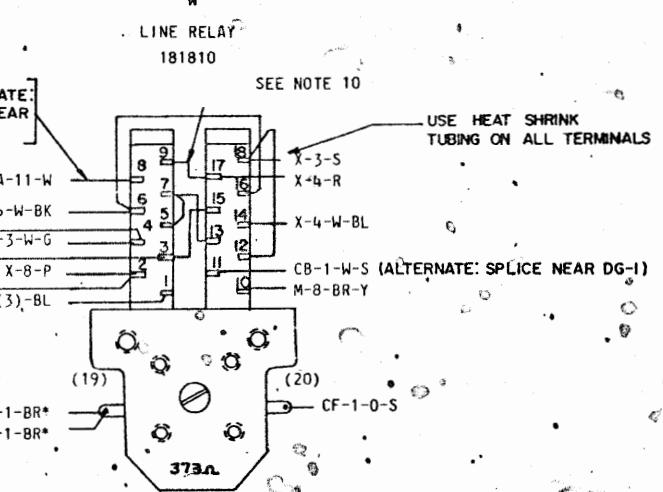
6354 WD

REVISIONS

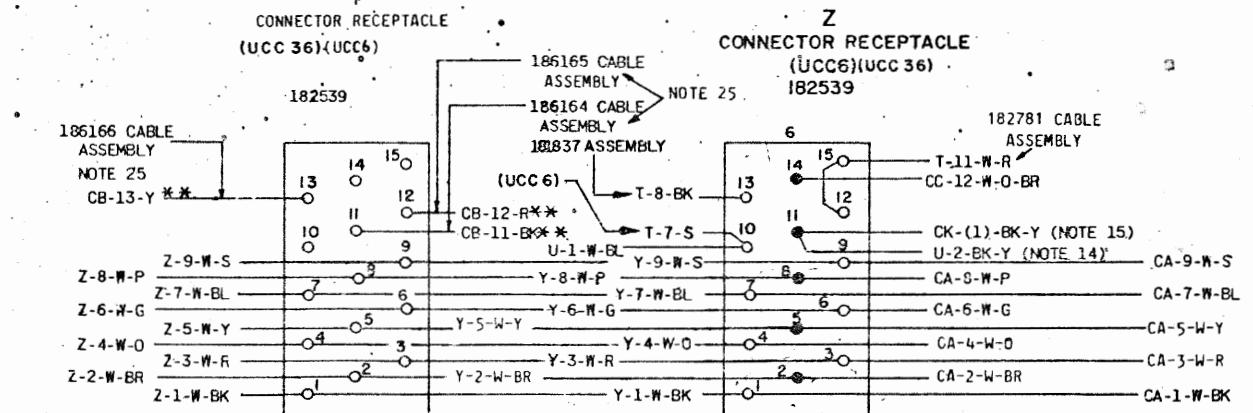
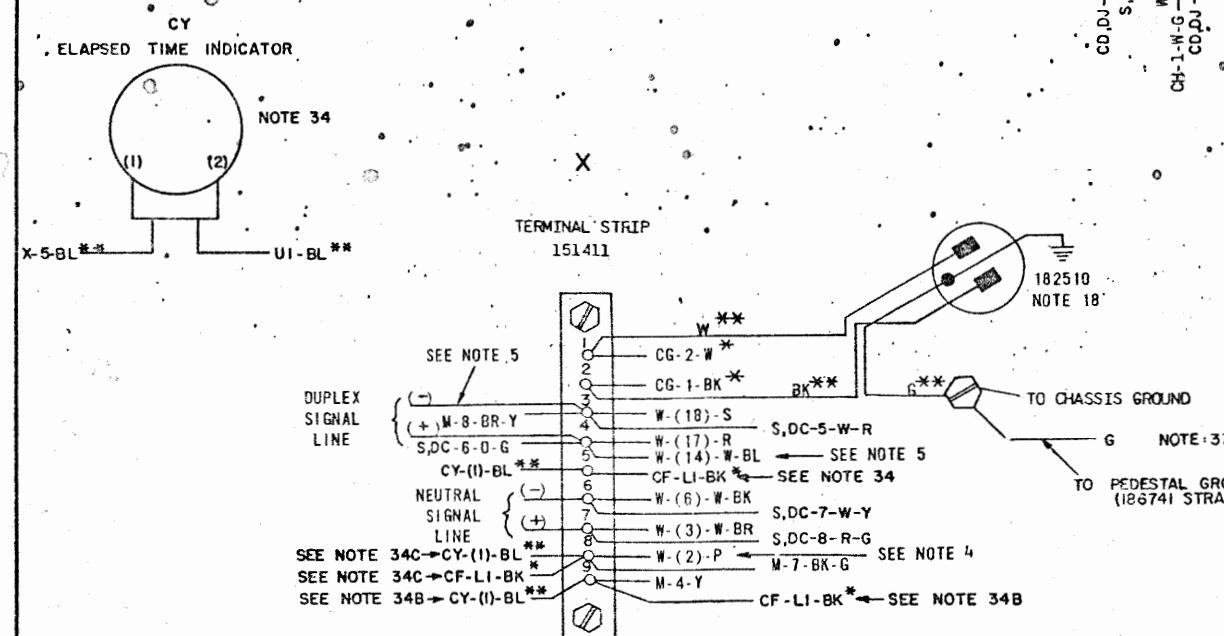
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25	3-4-70	99947-1
26	1-15-71	736
27	1-22-71	419
28	11-21-73	8046



** DENOTES TRANSFORMER LEADS

SEE ISSUE CONTROL RECORD FOR COM-
PLETE LIST OF SHEETS COMPRISING THIS
WD.

SHEET 2

ACTUAL
WIRING DIAGRAM
FOR
MODEL 33 - ASR, KSR, RO
FOR
DC SIGNAL LINE

D AND R	E OF M
HJK	A
E-NUMBER	
PROD. NO.	6354WD
DATE	9-25-63
P.D. FILE NO.	2-30.152/153AA
DRAWN CG	CHKD.
ENGD. PRS	APPD.

TELETYPE
CORPORATION

6354 WD

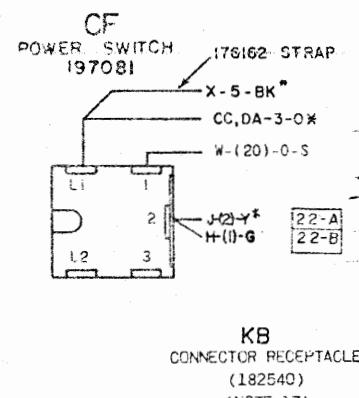
SEE SHEET 1 FOR NOTES

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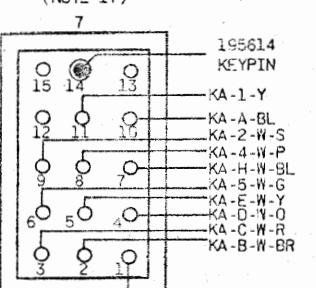
6354WD

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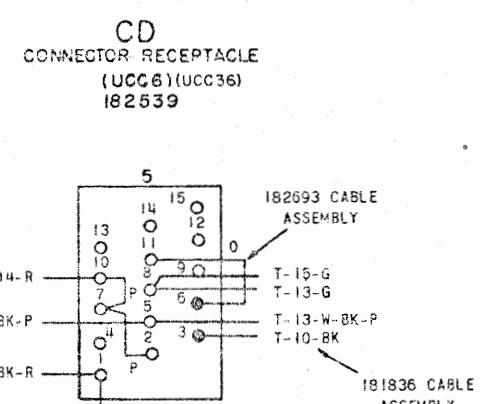
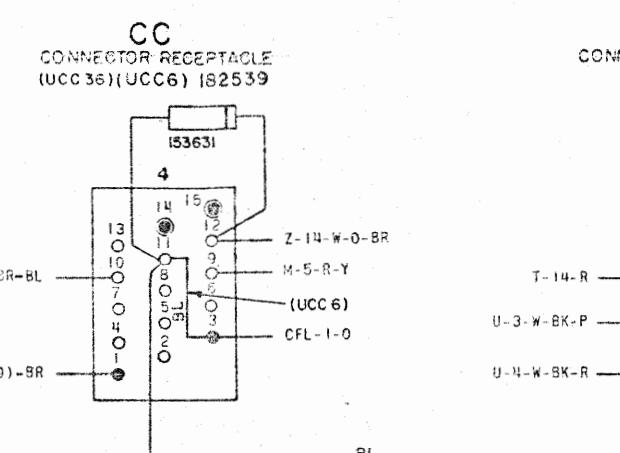
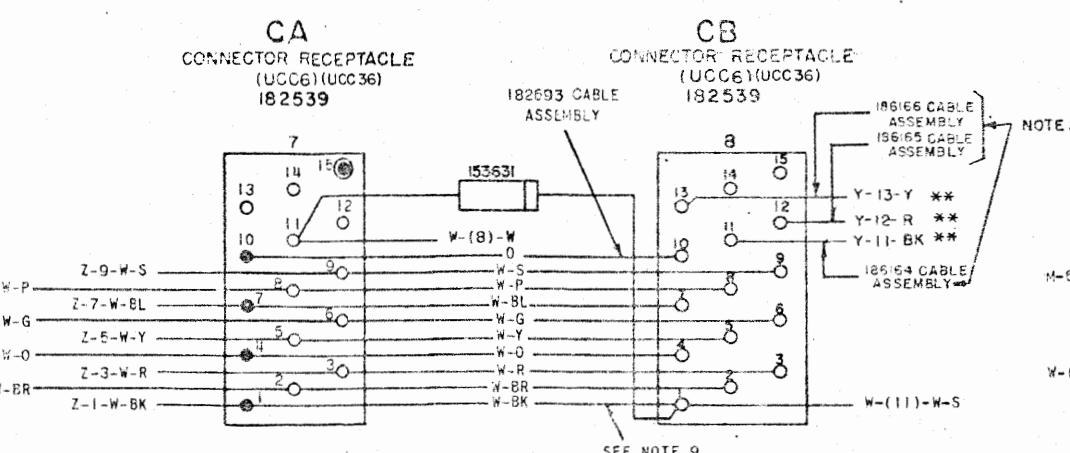
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20	5-29-67	94003
21	8-21-67	94003-1D
22	5-22-69	99243
23	10-1-69	93557
24	2-18-70	99947-4
25	3-4-70	99947-1
26	12-9-70	2145
27	1-14-72	5078
28	3-29-72	5079-1
29	11-21-73	8046



KB
CONNECTOR RECEPTACLE
(182540)
(NOTE 17)



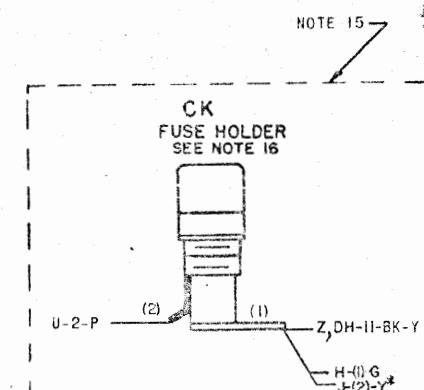
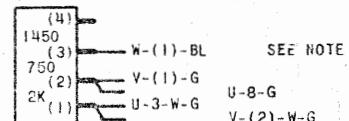
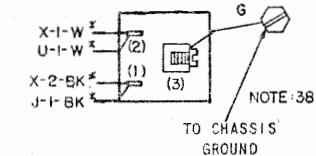
SEE ISSUE CONTROL RECORD FOR
COMPLETE LIST OF SHEETS
COMPRISING THIS W.D.



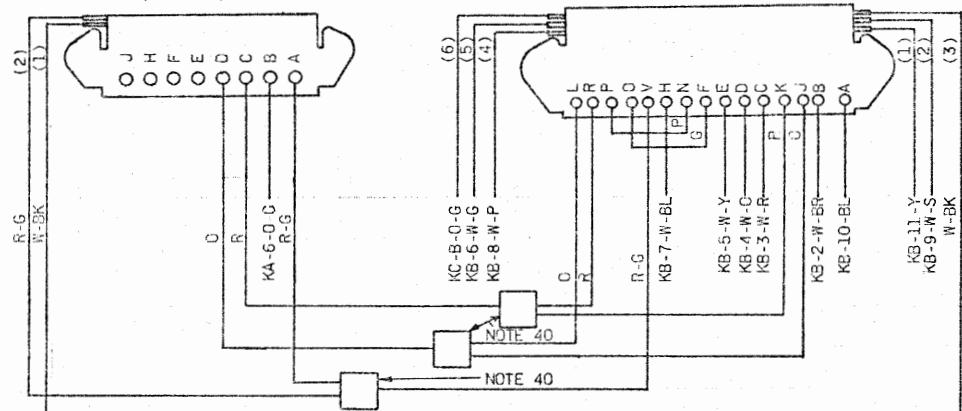
CG
CONVENIENCE OUTLET
301713

CH
POWER RESISTOR
181816

(OUTLET VIEWED FROM
TERMINAL (WIRED) SIDE)



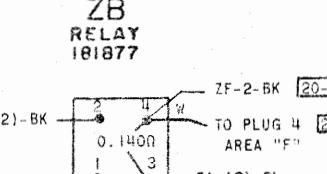
KC
PARITY KEYBOARD
CONTACT BLOCK, LEFT
(NOTE 17)



ZF
182182 FUSEHOLDER
185734 2-1/4 AMP
SL-BL FUSE

20-A TO PLUG 4 (1) ZB-4-BK 20-A

ZA
MOTOR, 181870
SYNCHRONOUS.

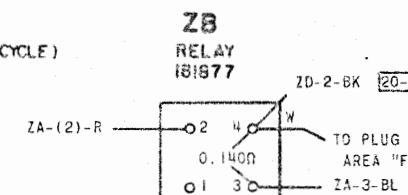


ZD
181391 TERMINAL
TO CHASSIS GROUND TERMINAL COVERED WITH SUITABLE
TUBING INSULATION SECURED AT
BOTH ENDS

ZC
CAPACITOR
181384
88-108 MFD

ZE-(1)-BK
ZB-2-BK
ZD
TERMINAL COVERED WITH SUITABLE
TUBING INSULATION SECURED AT
BOTH ENDS
ZA-(2)-R
ZC-(1)-BK

ZB
RELAY
181877
SYNCHRONOUS



ZD
182182 FUSEHOLDER
SL-BL FUSE
SEE NOTE 20

ZC
TERMINAL COVERED WITH SUITABLE
TUBING INSULATION SECURED AT
BOTH ENDS
ZA-(1)-Y
ZC-(1)-BK
TO PLUG 4 (1) ZB-4-BK 20-A
185731 STRAP

SHEET 3

ACTUAL

WIRING DIAGRAM

FOR

MODEL 33

ASR, KSR, RO

FOR

DC SIGNAL LINE

APPROVALS

D AND R
HJK

E-NUMBER

PROD. NO. 6354WD

DATE 9-25-63

P.D. FILE NO. 2-30.152/153AA

DRAWN C.G. CHKD.

ENGD. P.R.S. APPD.

TELETYPE
CORPORATION

6354WD

MANUAL READER
UX 800
SEE SHEET 1 FOR NOTES

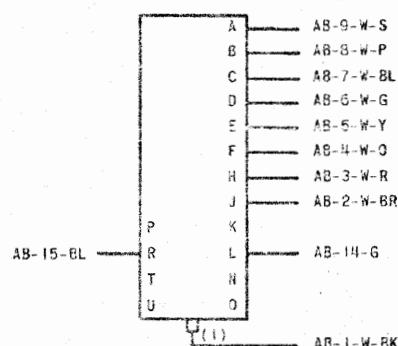
NOTE:
REVISION INFORMATION MUST ALSO
BE REFLECTED ON THE ISSUE
CONTROL RECORD, WHICH IS PART
OF THIS W.D.

6354WD

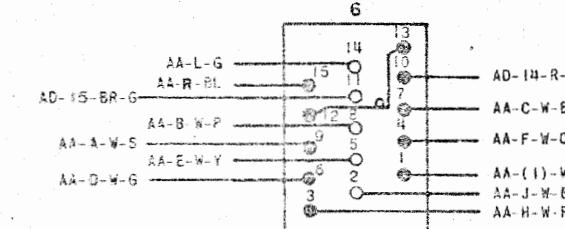
REVISIONS

ISSUE	DATE	AUTH. NO.
A 2	11-20-63	79265
B 3	RECORD ONLY	
C 4	3-16-64	81133
D 5	4-9-64	81640
6	11-27-64	84502
7	10-19-66	92181
8	1-27-69	96776
9	2-18-70	99847-4
10	12-9-70	2145

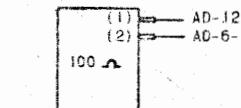
AA
READER CONTACT
BLOCK



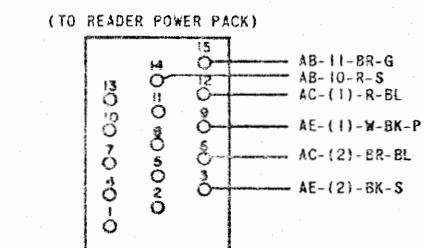
AB
CONNECTOR PLUG
(PRINTER)
162540



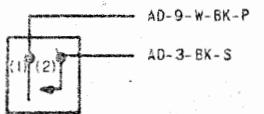
AC
READER FEED
MAGNET



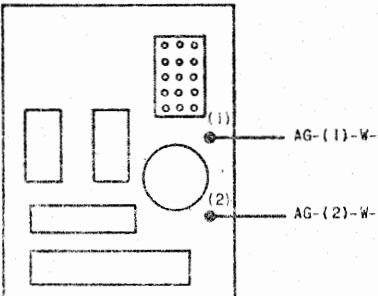
AD
CONNECTOR RECEPTACLE
182539



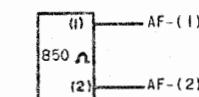
AE
READER FEED
CONTACT



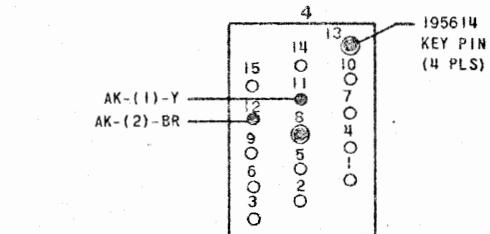
AF
BOARD ASSEMBLY
READER POWER PACK
183087



AG
RESISTOR, POWER
183081



AJ
CONNECTOR PLUG
(PRINTER)
162540



SEE ISSUE CONTROL RECORD FOR
COMPLETE LIST OF SHEETS
COMPRISED THIS W.D.

SHEET 4

ACTUAL
WIRING DIAGRAM
FOR
MODEL 33
ASP, KSR, RO
FOR
DC SIGNAL LINE

APPROVALS

D AND R	E OF M
H.J.K.	<i>S</i>

E-NUMBER

PROD. NO. 6354WD

DATE 9-25-63

P.D. FILE NO. 2-30.152/153AB

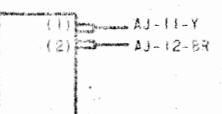
DRAWN C.G. CHKD.

ENGD. P.R.S. APPD.

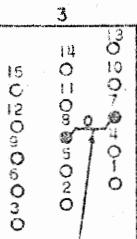
TELETYPE
CORPORATION

6354WD

AK
READER TRIP
MAGNET
(SEE NOTE 23)



AL
CONNECTOR PLUG
(PRINTER)
162540



SEE NOTE 12

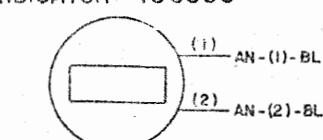
SEE NOTES 32 & 33

AN
TERMINAL COVERED WITH SUITABLE
TUBING INSULATION SECURED AT
BOTH ENDS*

AM-(1)-BL → F-1-BL
(1)

AM-(2)-BL → F-3-BL
(2)

AM
ELAPSED TIME
INDICATOR 186556



SEE SHEET 1 FOR NOTES

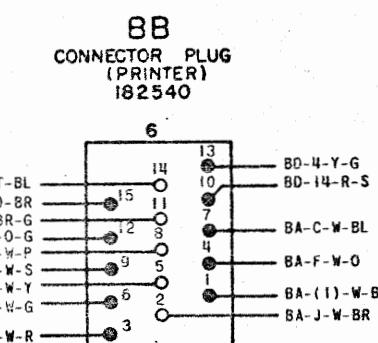
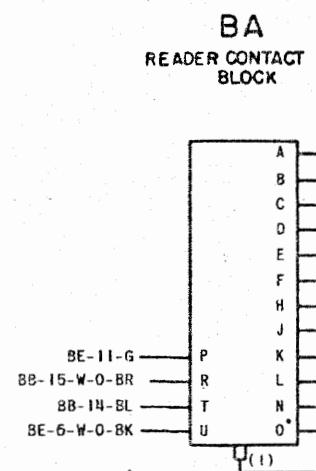
AUTOMATIC READER
UX 801

NOTE:
REVISION INFORMATION MUST ALSO
BE REFLECTED ON THE ISSUE
CONTROL RECORD, WHICH IS PART
OF THIS W.D.

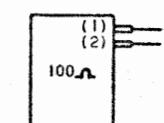
6354WD

REVISIONS

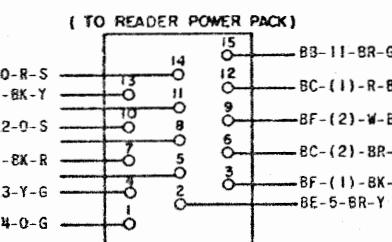
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D 5	4-9-64	81640
E 6	11-27-64	84602
F 7	10-19-66	92181
G 8	4-11-68	95703
H 9	5-20-68	95781
I 10	1-23-69	96776
J 11	10-1-69	99557



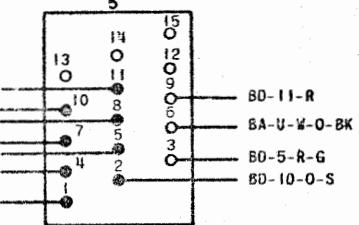
BC
READER FEED
MAGNET



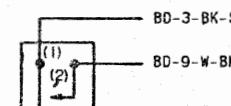
BD
CONNECTOR RECEPTACLE
182539



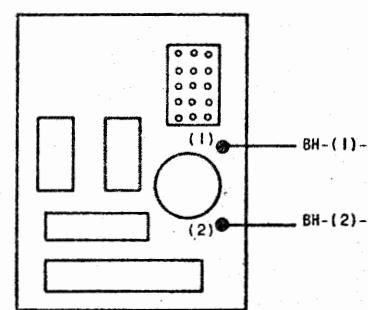
BE
CONNECTOR PLUG
182540



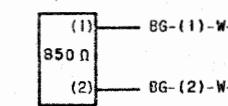
BF
READER FEED
CONTACT
182137



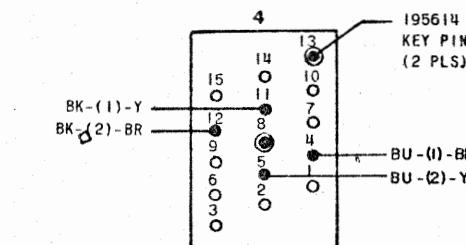
BG
BOARD ASSEMBLY
READER POWER PACK
183079



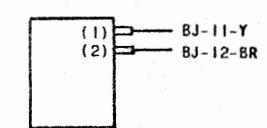
BH
RESISTOR POWER
183081



BJ
CONNECTOR PLUG
(PRINTER)
182540



BK
READER TRIP
MAGNET
(SEE NOTE 23 & 35)



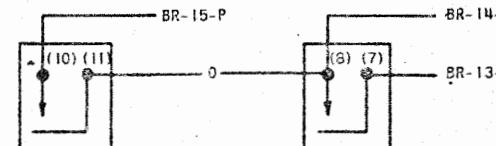
SEE ISSUE CONTROL RECORD FOR
COMPLETE LIST OF SHEETS
COMPRISING THIS W.D.

SHEET 5

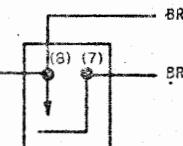
WDP

ACTUAL
WIRING DIAGRAM
FOR
MODEL 33
ASR, KSR, RO
DC SIGNAL LINE

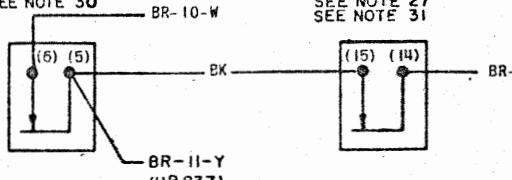
BL
ACK.
CONTACT
SEE NOTE 27



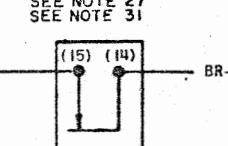
BM
X-ON
CONTACT
SEE NOTE 30



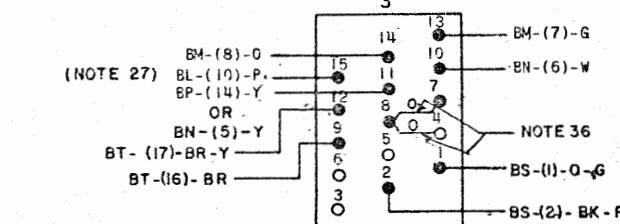
BN
X-OFF
CONTACT
SEE NOTE 11
SEE NOTE 30



BP
WRU
CONTACT
SEE NOTE 11
SEE NOTE 27
SEE NOTE 31



BR
CONNECTOR PLUG
(PRINTER)
182540



APPROVALS

D AND R H. J. K.	E OF R
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E-NUMBER

PROD. NO. 6354WD

DATE 9-25-63

P.D. FILE NO. 2-30.152/153AA

DRAWN C.G.

ENGD. P.R.S.

CHKD.

APPO.

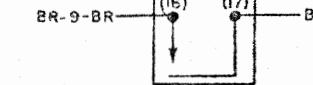
TELETYPE
CORPORATION

6354WD

BS
EOT CONTACT
SEE NOTES 29 & 30

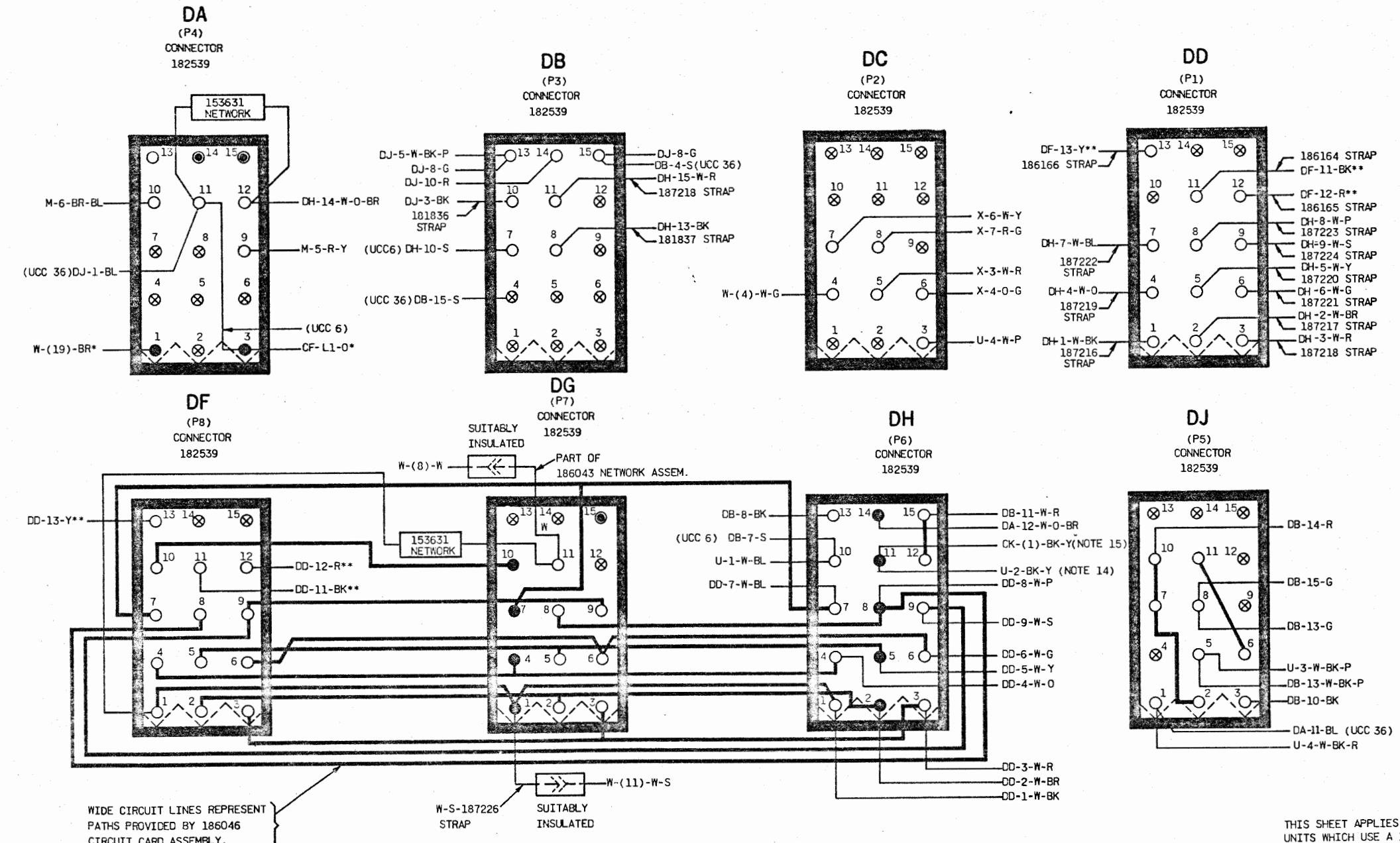


BT
ETX CONTACT
SEE NOTES 29 & 30



ISSUE	DATE	AUTH. NO.
1	11-21-73	8046

UNITS WITH CIRCUIT BOARD WIRING



CONNECTOR	DESIGNATION
W/186046 CIRCUIT CARD	W/O 186046 CIRCUIT CARD
P1 DD	Y
P2 DC	S
P3 DB	T
P4 DA	CC
P5 DJ	CD
P6 DH	Z
P7 DG	CA
P8 DF	CB

THIS SHEET APPLIES TO LATER VERSION UNITS WHICH USE A 186046 CIRCUIT CARD ASSEMBLY TO PROVIDE PART OF WIRING.

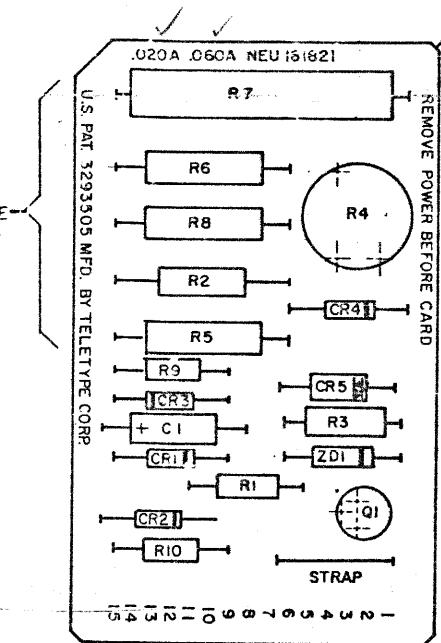
SHEET 6

ACTUAL
WIRING DIAGRAM
FOR
MODEL 33-ASR, KSR, RO
FOR
DC SIGNAL LINE

APPROVALS
PROJ. SUPV. A1
PROJ. DIR. DSGNR.
DRN. DWJ DATE
R&D FILE 2-30.152/153AA
S-NUMBER 60773
TELETYPE

6354WD (6)

NO	NOTES
1	MASTER ARTWORK NO. 181821AW FOR PRINTING SCREEN IS AVAILABLE IN R&D OFFICE SERVICE SECTION.
2	RAISE R2, 5, 6, 7, 8 - 1/32 TO 1/16 ABOVE CIRCUIT CARD.
3	TO FACILITATE MANUFACTURE THE COMPONENT LAYOUT WAS CHANGED INCLUDING R1 AND CR5 WHICH WAS CHANGED FROM VERTICAL MOUNTING AND THE ADDITION OF 336470 OR RM-39550 STRAP.
4	CRI, CR2-182520 (IN3193) AND CR3, CR4-181619 (IN482) WERE REPLACED FOR STANDARDIZATION.



CIRCUIT DESCRIPTION

THE SELECTOR MAGNET DRIVER CIRCUIT IS POWERED FROM A SOURCE OF 117 VOLT ALTERNATING CURRENT THROUGH A STEP DOWN ISOLATION TRANSFORMER. DIODES CRI AND CR2 PROVIDE FULL WAVE RECTIFICATION OF THE REDUCED VOLTAGE TO -20 VOLTS DC AT TERMINAL 15. THE CIRCUIT COMMON IS CONNECTED TO TERMINAL 2 AND A POWER SUPPLY FILTER CAPACITOR IS CONNECTED BETWEEN TERMINALS 2 AND 15.

THE DIRECT CURRENT SIGNAL LINE CIRCUIT IS CONNECTED THROUGH TERMINALS 14 OR 8 AND 2 DEPENDING ON LINE CURRENT. TERMINAL 7 IS STRAPPED EXTERNALLY TO TERMINAL 14 OR 8, DEPENDING ON LINE CURRENT.

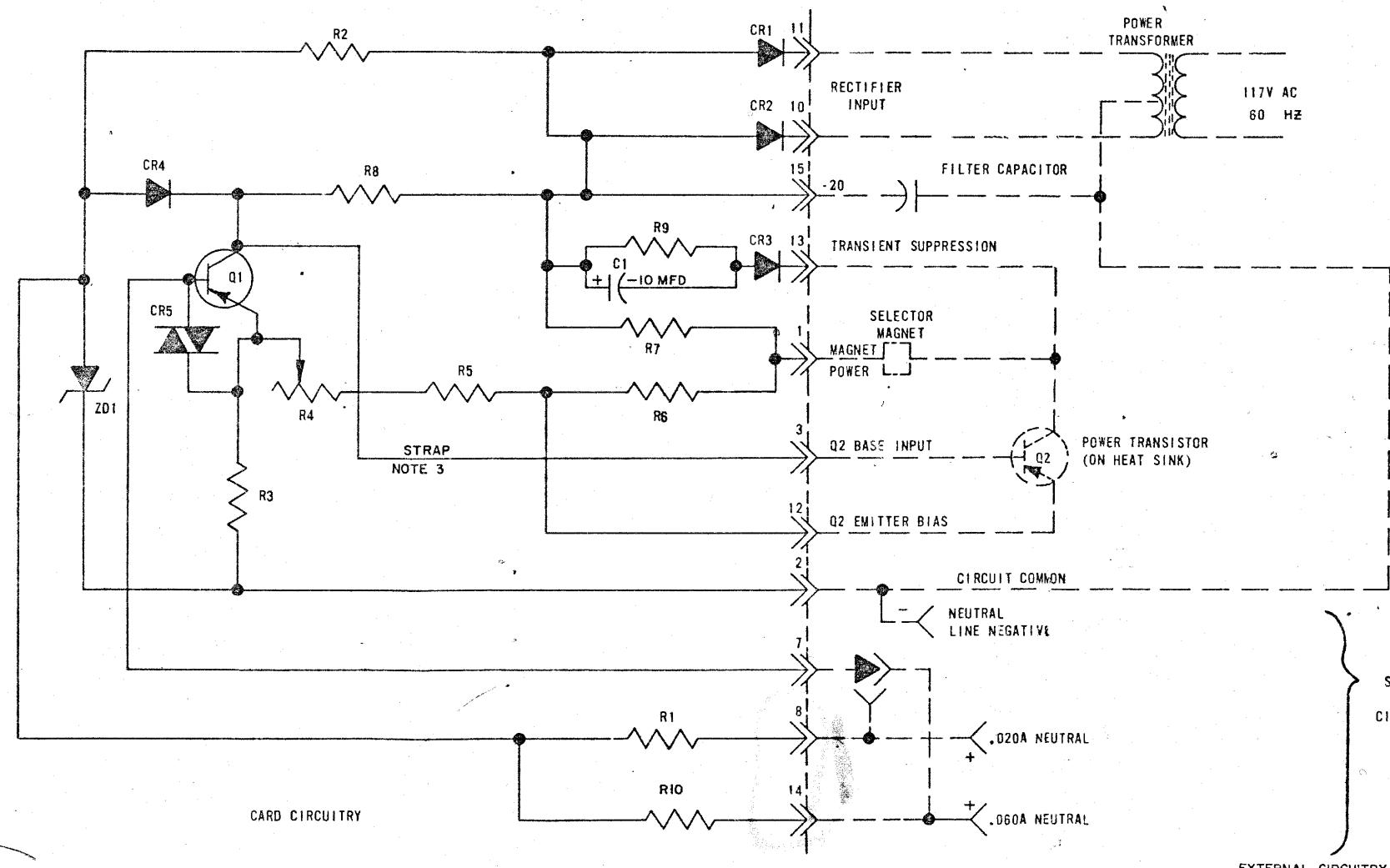
IN THE MARKING CONDITION, Q1 IS OFF-BIASED. WITH Q1 OFF, THE BASE OF Q2 WILL BE CLAMPED AT THE ZENER REFERENCE VOLTAGE BY DIODE CR4. THIS VOLTAGE CLAMP IS THEN TRANSLATED TO CURRENT REGULATION BY THE TRANSISTOR ACTION OF Q2. THE REGULATED MAGNET CURRENT IS ADJUSTED TO 500 AMPERES BY RHEOSTAT R4.

WITH THE SIGNAL LINE IN THE OPEN OR SPACING CONDITION, Q1 IS TURNED ON BY BASE CURRENT SUPPLIED THROUGH RESISTOR R1 OR R2. THE POTENTIAL AT THE COLLECTOR OF Q1 WILL BE NEAR ZERO OFF-BIASING Q2. WITH Q2 OFF, NO SELECTOR MAGNET CURRENT FLOWS, ALLOWING THE MAGNET TO RELEASE DURING THE TURN OFF OF Q2. THE INDUCTIVE TRANSIENT DEVELOPED AT THE COLLECTOR IS SUPPRESSED BY THE NETWORK CONSISTING OF CR3, R9 AND C1.

'SNAP-ACTION' IS SUPPLIED TO THE CIRCUIT TRANSITIONS BY FEEDBACK IN THE Emitter CIRCUIT OF TRANSISTOR Q1.

UL RECOGNITION SYMBOL
REQUIRED PER MR 2001.

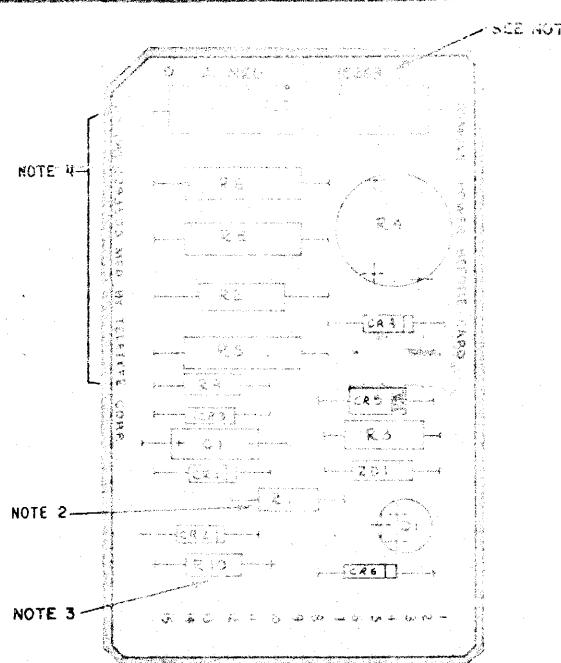
CONSTANT CURRENT .500 AMP SELECTOR MAGNET DRIVER



CIRCUIT BOARD EC				
REF. DESIGN.	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
R1	182779	1	RESISTOR 420 OHMS 1.2W	010 AMP. SWITCHING - FOR 020A NEUTRAL
R10	182707	1	RESISTOR 135 OHMS 1.2W	030 AMP. SWITCHING - FOR 060A NEUTRAL
R2	181669	1	RESISTOR 330 OHMS 2.5W	ZENER CURRENT LIMITING
R3	182778	1	RESISTOR 0.82 OHMS 1.2W	COMMON Emitter BIAS
R4	182773	1	RHEOSTAT 3 OHMS 2.5W	OUTPUT CURRENT ADJUST
R5	181717	1	RESISTOR 8 OHMS 5W	Q2 Emitter Bias
R6	182770	1	RESISTOR 270 OHMS 4W	Q2 Emitter Bias
R7	182772	1	RESISTOR 14 OHMS 10W	Q2 COLLECTOR LOAD
R8	182627	1	RESISTOR 390 OHMS 4W	Q1 COLLECTOR LOAD
R9	182776	1	RESISTOR 150 OHMS 1.2W	Q2 COLLECTOR TRANSIENT LIMITING
CR1	171541	2	DIODE (NOTE 4)	POWER RECTIFIER
CR2			SAME AS CRI	POWER RECTIFIER
CR3	197464	2	DIODE (NOTE 4)	COLLECTOR TRANSIENT LIMITING
CR4			SAME AS CR3	VOLTAGE CLAMPING
CR5	178944	1	VARISTOR 100A	INPUT PROTECTION
ZD1	182774	1	DIODE, ZENER 4.7V 5.1W	REFERENCE
C1	182628	1	CAPACITOR 10 MFD 25W VDC	COLLECTOR TRANSIENT LIMITING
Q1	181671	1	TRANSISTOR, HIGH GAIN	INPUT SWITCH
RM39550		1	STRAP	NOTE 3
EC	181823	1	CIRCUIT BOARD, ETCHED	

181821		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	4-19-65	86501
2	9-19-66	88816
3	11-25-66	88816-1
4	5-5-67	93502
5	4-2-68	95450
6	7-5-68	95948
7	11-6-68	96521
8	12-20-68	98266
9	1-3-71	1420
10	3-29-72	236
11	3-29-72	236-1
12	3-29-72	236-1
REVISIONS		
1	10728	11701
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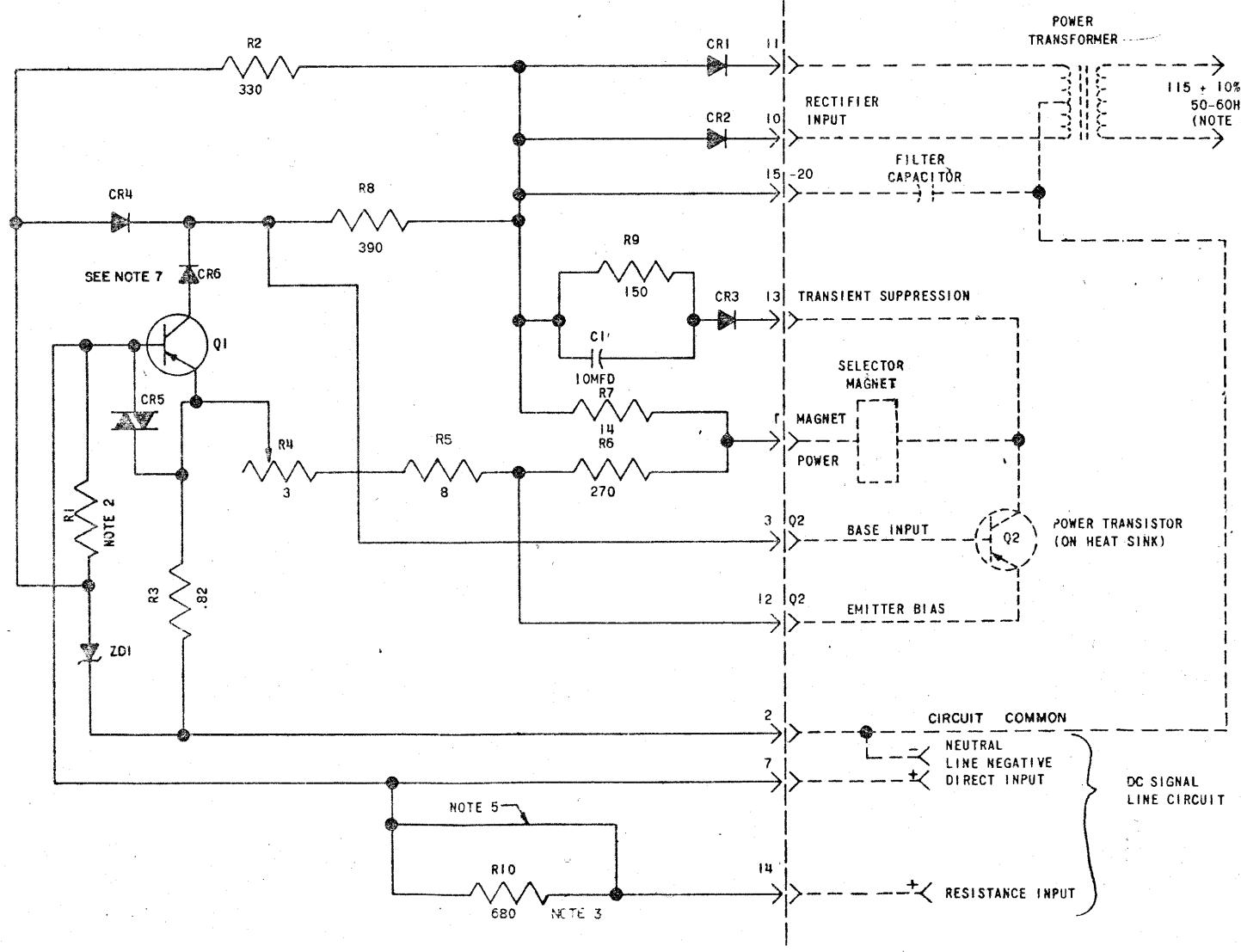
NO.	NOTES
1.	MUTTER WORK NO. 1'S 182630AW, 182631AW 182532AW. PRINTING SCREENS ARE AVAILABLE IN THE END OF SHELF SERVICE SECTION.
2.	THE SELECTION OF THIS RESISTOR DEPENDS ON THE APPLICATION IN WHICH THE DRIVER IS TO BE USED.
3.	R10 IS USED ON 182630 ASSEMBLY ONLY.
4.	RAISE R2, 5, 6, 7, 8 1/32 TO 1/16 ABOVE CIRCUIT CARD.
5.	THE 73647D STRAP IS USED ON THE 182631 AND 182632 ASSEMBLIES
6.	SEE 5983WD FOR APPROPRIATE POWER INPUT.
7.	DIODE CR6 WAS ADDED TO PROTECT Q1 FROM DESTRUCTION BY ACCIDENTAL GROUNDING OF THE COLLECTOR OF Q2. 181653 DIODE WAS USED FIRST BUT CHANGED TO 199442 TO REDUCE "LEAKAGE" CURRENT DURING SPACING PULSES.
8.	.020 A NEU 182630 .060 A NEU 182631 .040A NEU 182632
9.	TO FACILITATE MANUFACTURE THE COMPO- NENT LAYOUT WAS CHANGED INCLUDING R-1 AND CR-5 WHICH WAS CHANGED FROM VERTI- CAL MOUNTING.
10.	CRI, CR2-182520 (IN3193) AND CR3, CR4-181619 (IN482) WERE REPLACED FOR STANDARDIZATION.



2006-07-26 21

UL RECOGNITION SYMBOL
REQUIRED PER MR 2001.

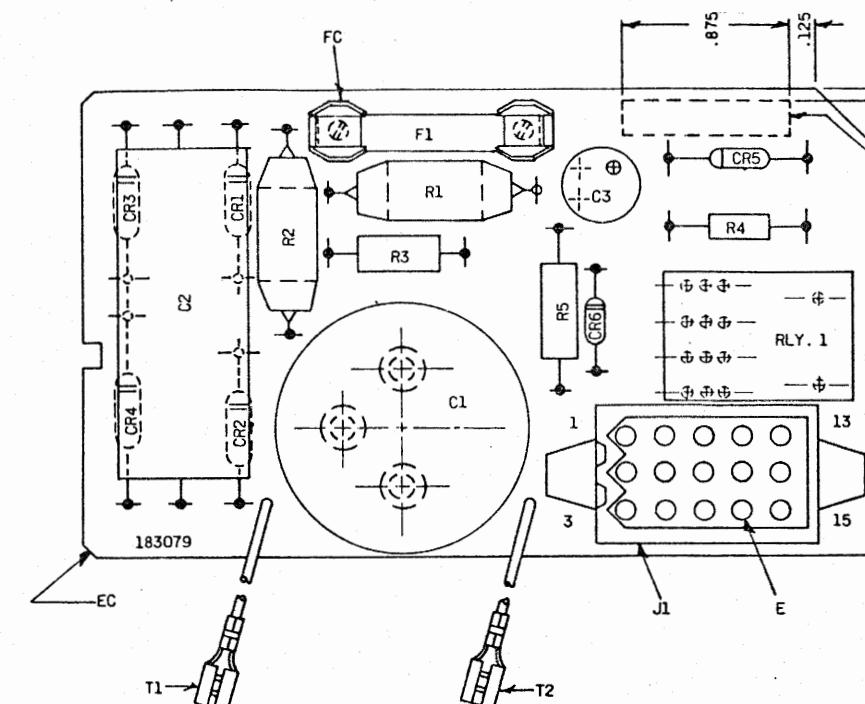
INSTANT CURRENT .500 SELECTOR MAGNET DRIVER



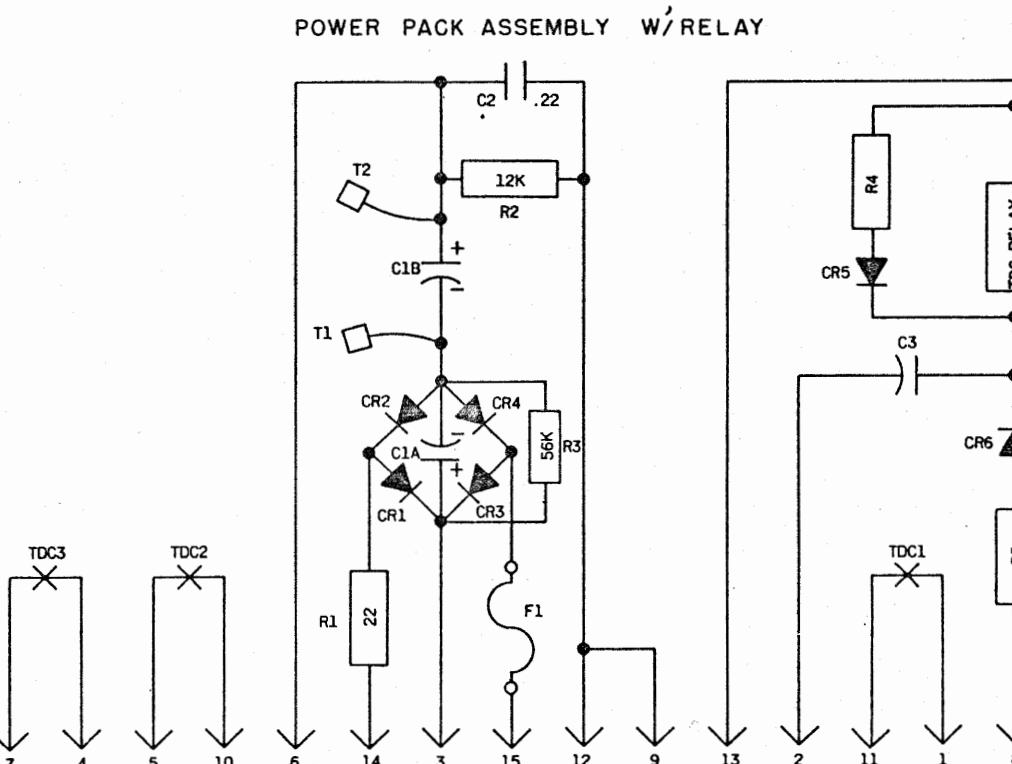
CARD CIRCUITRY

EXTERNAL CIRCUITRY

CIRCUIT CARD ASSEMBLY							REVISIONS																
REF. DESIG.	TELETYPE PART NO.	TOTAL QTY	NAME & DESIGNATION	LOCATING FUNCTION	USED ON	FOR	ISSUE	DATE	AUTH. NO.														
RI	182779	1	RESISTOR 420 OHMS 1/2W	.010 AMP. SWITCHING	182630	.020A NEUTRAL LINE	2	8-8-62	30-1259														
"	182797	1	RESISTOR 135 OHMS 1/2W	.030 AMP. SWITCHING	182631	.050A " "	3	11-27-62	30-5388														
"	182180	1	RESISTOR 200 OHMS 1/2W	.020 AMP. SWITCHING	182632	.040A " "	4	12-17-62	30-5445														
R10	182777	1	RESISTOR 680 OHMS 1/2W	INPUT CURRENT LIMITING	182630	DATA SET OPERATION	5	1-23-63	30-5580														
R10	336470	1	STRAP	.030 AMP. SWITCHING	182631	.060A NEUTRAL LINE	6	3-20-64	81340														
R10	336470	1	STRAP	.020 AMP. SWITCHING	182632	.040A " "	7	5-21-64	81761														
R2	181669	1	RESISTOR 330 OHMS 2.1/2W	ZENER CURRENT LIMITING			8	4-26-65	86507-2														
R3	182778	1	RESISTOR 0.82 OHM 1/2W	COMMON Emitter BIAS			9	6-10-65	88816-1														
R4	182773	1	RHEOSTAT 3 OHMS 2.1/2W	OUTPUT CURRENT ADJUST			10	9-19-66	88816														
R5	181717	1	RESISTOR 8 OHMS 5W	Q2 Emitter BIAS			11	10-25-66	92190														
R6	182770	1	RESISTOR 270 OHMS 4W	Q2 Emitter BIAS			12	12-14-66	93101														
R7	182772	1	RESISTOR 14 OHMS 10W	Q2 COLLECTOR LOAD			13	2-7-67	93502														
R8	182627	1	RESISTOR 390 OHMS 4W	Q1 COLLECTOR LOAD			14	5-3-67	19358-R														
R9	182776	1	RESISTOR 150 OHMS 1/2W	Q2 COLLECTOR LOAD TRANSIENT LIMITING			15	6-20-68	19358-R														
							16	7-9-68	95948														
							17	12-20-68	98266														
							18	8-10-70	216														
							19	3-3-71	2320														
							20	3-9-71	2320														
CRI	171541	2	DIODE (NOTE 10)	POWER RECTIFIER																			
CR2			SAME AS CRI	POWER RECTIFIER																			
CR3	197464	2	DIODE (NOTE 10)	COLLECTOR																			
				TRANSIENT LIMITING																			
CR4			SAME AS CR3	VOLTAGE CLAMPING																			
CR5	178844	1	VARISTOR 100A	INPUT PROTECTION																			
CR6	199442	1	DIODE, IN270	SEE NOTE 7																			
ZDI	182774	1	DIODE, ZENER 4.7V 5% 1W.	REFERENCE																			
CI	182628	1	CAPACITOR, 10 MFD, 25WVDC	COLLECTOR																			
				TRANSIENT LIMITING																			
Q1	181671	1	TRANSISTOR, HIGH GAIN	INPUT SWITCH																			
EC	182775	1	CIRCUIT BOARD, ETCHED																				
CIRCUIT DESCRIPTION							REVISIONS																
<p>THE SELECTOR MAGNET DRIVER CIRCUIT IS POWERED FROM A SOURCE OF 117 VOLT ALTERNATING CURRENT THROUGH A STEP DOWN ISOLATION TRANSFORMER. DIODES CRI AND CR2 PROVIDE FULL WAVE RECTIFICATION OF THE REDUCED VOLTAGE TO -20 VOLTS DC AT TERMINAL 15. THE CIRCUIT COMMON IS CONNECTED TO TERMINAL 2 AND A POWER SUPPLY FILTER CAPACITOR IS CONNECTED BETWEEN TERMINALS 2 AND 15.</p> <p>THE DIRECT CURRENT SIGNAL LINE CIRCUIT IS CONNECTED THROUGH TERMINALS 7 AND 2, WITH AN ALTERNATE CONNECTION THROUGH R10 AT TERMINAL 14 PROVIDING A CURRENT LIMITING FUNCTION.</p> <p>IN THE MARKING CONDITION, Q1 IS OFF-BIASED. WITH Q1 OFF, THE BASE OF Q2 WILL BE CLAMPED AT THE ZENER REFERENCE VOLTAGE BY DIODE CR4. THIS VOLTAGE CLAMP IS THEN TRANSLATED TO CURRENT REGULATION BY THE TRANSISTOR ACTION OF Q2. THE REGULATED MAGNET CURRENT IS ADJUSTED TO .500 AMPERES BY RHEOSTAT R4.</p> <p>WITH THE SIGNAL LINE IN THE OPEN OR SPACING CONDITION, Q1 IS TURNED ON BY BASE CURRENT SUPPLIED THROUGH RESISTOR RI. THE POTENTIAL AT THE COLLECTOR OF Q1 WILL BE NEAR ZERO. OFF-BIASING Q2, WITH Q2 OFF, NO SELECTOR MAGNET CURRENT FLOWS, ALLOWING THE MAGNET TO RELEASE. DURING THE TURN OFF OF Q2 THE INDUCTIVE TRANSIENT DEVELOPED AT THE COLLECTOR IS SUPPRESSED BY THE NETWORK CONSISTING OF CR3, R9, AND CI.</p> <p>"SNAP-ACTION" IS SUPPLIED TO THE CIRCUIT TRANSITIONS BY FEEDBACK IN THE Emitter CIRCUITS OF TRANSISTORS Q1 AND Q2.</p>							<table border="1"> <tr> <td rowspan="2">CUSTOMER IDENTIFICATION</td> <td rowspan="2">W/M VERSION</td> <td rowspan="2">ASSOCIATED NOTE</td> <td colspan="2">REVISIONS</td> </tr> <tr> <td>DRAWING ISSUE</td> <td>CONFORMANCE DATE</td> </tr> <tr> <td>ZD</td> <td>B</td> <td>10</td> <td>21</td> <td>10728</td> </tr> </table>			CUSTOMER IDENTIFICATION	W/M VERSION	ASSOCIATED NOTE	REVISIONS		DRAWING ISSUE	CONFORMANCE DATE	ZD	B	10	21	10728		
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APPROVALS							REVISIONS																
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TELETYPE CORPORATION							REVISIONS																
182630-35							REVISIONS																



UL RECOGNITION SYMBOL
REQUIRED PER MR 2001.



REVISIONS	
DATE	AUTH NO.
1-13-72	4350

REVISIONS					
CUSTOMER IDENTIFICATION ISSUE	MFG	VERSION	ASSOCIATED NOTE	DRAWING ISSUE	CONFORMANCE DATE
13	8	5		14	12174

CIRCUIT CARD
EC 183079
R PACK ASSEMBLY
WIRELESS

APPROVALS		
PROJ. SUPY.	PROJ. DIR.	MFG. REL. COMPL. (111)
MR. T. Y.	DSGNR.	
MR. F. R.	DATE 8-4-72	
NUMBER		
D-CD NO.		
BD FILE 1-47.60.AA		
TELETYPE		
		
183079		

ALL DIMENSIONS ? UNLESS
OTHERWISE SPECIFIED

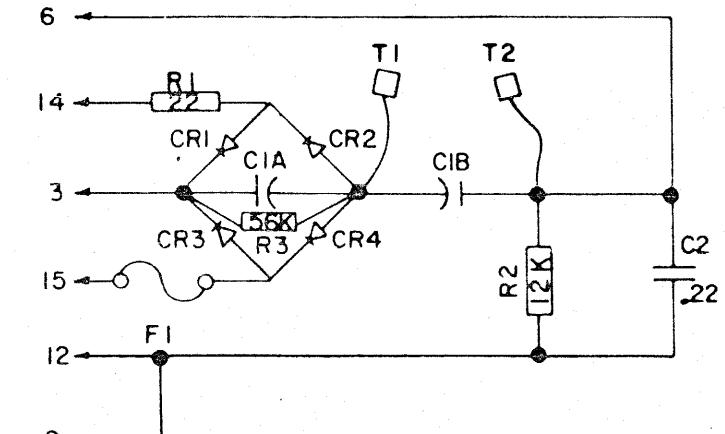
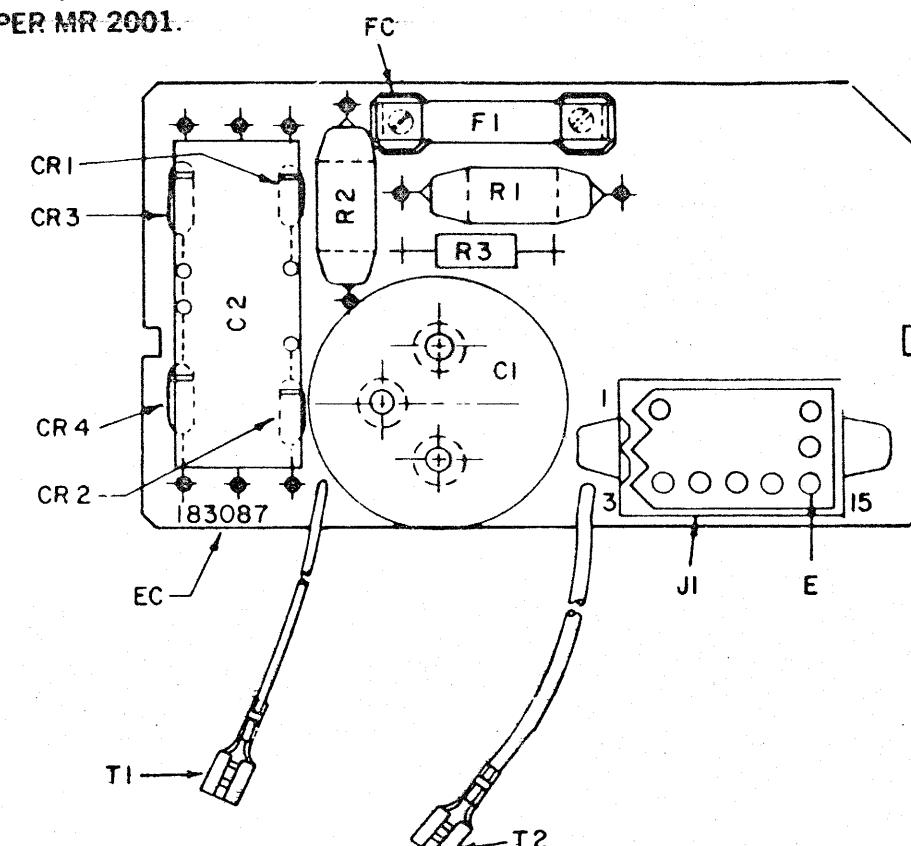
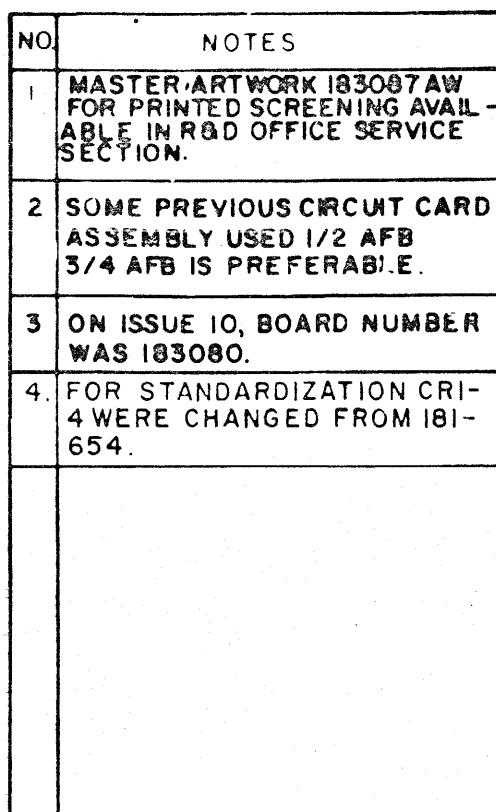
UL RECOGNITION SYMBOL
REQUIRED PER MR 2001.

CIRCUIT CARD ASSEMBLY

POWER PACK ASSEMBLY

NO B/M

PARTS REQ	NO REQ	USED ON	NO REQ
SEE BELOW		182134	1



DESIGN-NATION	TELETYPE PART NO	TOTAL QTY	DESCRIPTION	FUNCTION
R1	183083	1	RESISTOR, 22 OHM	SURGE LIMITER
R2	183082	1	RESISTOR, 12,000 OHM	ARC SUPPRESSOR
C1	183078	1	CAPACITOR, DUAL SELECTION	
			A - 200 M.F.D. 200 V.D.C	POWER SUPPLY FILTER
			B - 9 M.F.D. 200 V.D.C.	SURGE SOURCE
C2	183084	1	CAPACITOR, .22 M.F.D.	ARC SUPPRESSOR
CRI	312341	4	DIODE, 400 V. (NOTE 4)	POWER SUPPLY RECTIFIER
CR2			" "	" " "
CR3			" "	" " "
CR4			" "	" " "
F1	143630	1	FUSE, 3/4 A. F.B.	POWER SUPPLY PROTECTION SEE NOTE 2.
FC	171595	2	FUSE CLIP	
T1	183085	2	TERMINAL WITH WIRE LEAD	
T2			" " " "	
J1	182540	1	CONTACT BLOCK, 15 POINT	
E	182641	8	TERMINALS MALE P.C.	
EC	183137	1	ETCHED CIRCUIT BOARD	NOTE 3
	151637	2	SCREW 4-40 FIL HEAD	
	110743	2	LOCK WASHER #4	
	151880	2	NUT	
R3	118198	1	RESISTOR, 56,000 OHM	BLEEDER

THIS POWER PACK CONSISTS OF A 150 VOLT POWER SUPPLY OPERATING DIRECTLY FROM THE 117 VAC LINE. A WAVE SHAPING NETWORK AND AN ARC SUPPRESSOR. IT IS DESIGNED TO OPERATE WITH AN INDUCTIVE LOAD OF APPROXIMATELY 100 OHMS BETWEEN TERMINALS 6 AND 12, WITH A 850 OHM 40 WATT RESISTOR CONNECTED BETWEEN T1 AND T2.

AN ON-OFF CONTROL SWITCH IS CONNECTED BETWEEN TERMINALS 9 AND 3. THE UNIT IS DESIGNED TO DRIVE THE READER MAGNET IN THE MODEL 32 AND 33 ASR.

WDP

APPROVALS

R AND R E OF M

NUMBER

800 NO 193097

SCALE: $\frac{1}{4}$

80 FILE NO

1-4760AA

ENGINEER CHECKED

J.A.J. | A.A.H.

1000

STOCK SPECIFICATION

TELETYPE
CORPORATION

183087